

SCS ENGINEERS

**Results of the 3rd Quarter 2005
Groundwater Monitoring and Sampling Event
and Request for Case Closure**

**1599 Hampton Way
Santa Rosa, California
(NCRWQCB Site #1TSO082)
(Assessor's Parcel No. 125-081-021)**

File Number 01203314.00

Prepared by:

**SCS Engineers
3645 Westwind Boulevard
Santa Rosa, California 95403**

To:

**Mr. Stephen Bargsten
North Coast Regional Water Quality Control Board
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403**

October 24, 2005

LIMITATIONS/DISCLAIMER

This report has been prepared for Mr. Phil Johnson with specific application to a Quarterly Monitoring event for the property located at 1599 Hampton Way, Santa Rosa, California. Field activities and sampling were conducted in accordance with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, either expressed or implied, is made as to the professional advice presented herein.

Access to the property and the surrounding area was limited by buildings, roadways, underground and above-ground utilities and other miscellaneous site and site vicinity features. Therefore, the field exploration and points of subsurface observation were somewhat restricted.

Changes in site use and conditions may occur due to variations in rainfall, temperature, water usage, or other factors. Additional information which was not available to the consultant at the time of this quarterly monitoring event or changes which may occur on the site or in the surrounding area may result in modification to the site that would impact the summary presented herein. This report is not a legal opinion.

We trust this report provides the information you require at this time and we appreciate the opportunity to work with you on this project. If you require any additional information, or have any questions, please do not hesitate to contact SCS at (707) 546-9461.

112

Kevin L. Coker REA 7887
CA registration fees paid through 06/30/06

102405

Date

Stephen Knuttel

Stephen Knuttel PG 7674
CA registration fees paid through 07/31/07



24. Oct., 2005

Date

Introduction

SCS Engineers (SCS) is pleased to present the results of the third quarter 2005 groundwater monitoring and sampling event and request for case closure for the site located at 1599 Hampton Way, Santa Rosa, California. The site is located as shown on the Site Plan, Figure 1; general site features are as shown on the Site Location Map, Figure 2.

Background

Information in the NCRWQCB's file for the site indicated that two underground storage tanks (USTs), a 2,000-gallon UST and a 550-gallon UST, both of which were reported to store gasoline, were located at the site. A letter to the NCRWQCB from Mr. Allen L. Leepin, the Vice-President/Secretary/Treasurer of Frontier Electric (Leepin, 1989), indicated that the USTs were removed in March 1986 and were empty at the time of removal. The NCRWQCB's files did not contain information regarding who removed the USTs from the site, details of overexcavation and backfilling activities, or the method of treatment and/or disposal of any excavated soil.

A "Stockpile" soil sample and an "Evacuation" groundwater sample were collected during the UST removal activities (Multi-Tech Laboratories [Multi-Tech], 1986; NCRWQCB, 1999). The "Stockpile" soil sample contained benzene, toluene, and xylenes at concentrations which were less than 10 milligrams per kilogram (mg/kg) (NCRWQCB, 1999). The "Evacuation" groundwater sample collected from the excavation pit contained TPH-g at a concentration of 2,700 micrograms per liter (ug/L), benzene at a concentration of 840 ug/L, 1,700 ug/L toluene, and 2,800 ug/L xylenes (NCRWQCB, 1999). Based on the analytical results from the UST excavation and stockpile sampling, the NCRWQCB issued a letter directing that the property owner perform a preliminary site assessment (NCRWQCB, 1989). Mr. Leepin subsequently requested that the NCRWQCB contact M.J. Enterprises, the property owner, regarding the site assessment requirements.

In early 1996, Pacific Northwest EnviroNet group, Inc. (PNEG) was retained to prepare a work plan to address investigation activities and cleanup of soils and groundwater at the site. PNEG subsequently prepared and submitted a work plan for a preliminary site investigation (PNEG, 1996a).

In accordance with the 1996 work plan (PNEG, 1996a), eight soil borings (B-1 through B-8) were drilled and sampled at the approximate locations shown on Figure 2 in August 1996 (PNEG, 1996b). Analytical results for soil and groundwater samples indicated detectable concentrations of hydrocarbons in borings B-6 and B-7. Soil and groundwater analytical results are summarized on Tables 1 and 2. Based on the results of the August 1996 investigation, the NCRWQCB requested that a monitoring well be installed south of the former UST locations in the general vicinity of borings B-5, B-6, and B-7 (NCRWQCB, 1997). PNEG subsequently submitted a work plan to the

NCRWQCB (PNEG, 1997) to address the NCRWQCB's request. In accordance with the approved 1997 work plan, one monitoring well (MW-1) was drilled, sampled, and installed at the approximate location shown on Figure 2 in March 1998 (PNEG, 1998a). The soil samples collected from MW-1 at depths of 5 and 10 feet below existing ground surface (bgs) were below the laboratory report detection limit (RDL) for all target analytes. The soil sample collected at 13.5 feet bgs contained 39 mg/kg TPH-g, 0.0072 mg/kg ethylbenzene, and 0.010 mg/kg xylenes (PNEG, 1998a). Soil analytical results are summarized in Table 3.

Two additional monitoring wells (MW-2 and MW-3) were drilled, sampled, and installed at the approximate locations shown on Figure 2 in September 1999 (PNEG, 2000a). Soil samples collected from MW-2 and MW-3 were below the laboratory RDL for all target analytes. Soil analytical results are summarized in Table 3.

Regardless of the non-detect results from MW-2 and MW-3 during the September 1999 investigation, the NCRWQCB issued a letter directing additional investigation at the site (NCRWQCB, 2001). Subsequently, two additional monitoring wells (MW-4 and MW-5) were drilled, sampled and installed at the approximate locations shown on Figure 2 in November 2002 (PNEG, 2003a). Soil samples collected from MW-4 and MW-5 were below the laboratory RDL for all target analytes. Soil analytical results are presented in Table 3.

A work plan was submitted to the NCRWQCB proposing three additional soil borings at the site in order to evaluate the deeper water-bearing zone beneath the site (SCS, 2004b). The NCRWQCB provided written approval of this work plan by regulatory letter (NCRWQCB, 2004b).

Three additional borings (B-09, B-10 and B-11) were advanced to approximately 30 -35 feet bgs using 7-inch hollow-stem augers on June 1, 2005 at the approximate locations shown on Figure 2. The groundwater samples collected from B-09, B-10, and B-11 were below the laboratory RDL for all target analytes, with the exception of toluene which was detected at 14 micrograms per liter ($\mu\text{g/L}$) and 1.6 $\mu\text{g/L}$, in samples B-09-W@35.0 and B-11-W@30.0, respectively. Toluene is a typical constituent of tapes which are used to seal the groundwater sampling tool. Groundwater analytical results are presented in Table 2.

Sensitive Receptor Survey

A sensitive receptor survey (SRS) was performed for the site in May 2001 (PNEG, 2001a); a supplemental SRS was performed in 2004 (SCS, 2004a). The survey was conducted on May 16, 2001, and included all properties within a 500 foot radius of the subject site. A review of Santa Rosa City Utility records was conducted, as well as interviews at all properties within the search area not connected to the municipal water utility. Six domestic wells were identified within the target area, the nearest of which are within approximately 200 feet of the subject site. Groundwater in the site vicinity is drawn for domestic, commercial, and agricultural uses. A review of available DWR Well Logs for domestic wells in the site vicinity indicates well depths ranging from approximately 50 feet

to 250 feet, and are generally sealed to at least 20 feet bgs. The approximate locations of the wells within the requested search radius are as shown on Figure 4. Results of the door-to-door survey are presented in Table 6.

In response to the NCRWQCB's request for additional information (NCRWQCB, 2004) with respect to the previously submitted SRS (PNEG, 2001a), the following information was reported (SCS, 2004). Local utility companies and the property owner were contacted by SCS regarding the possible presence of utility trenches between MW-1 and MW-3 which may act as groundwater conduits. There are sewer, water, and gas lines running along Hampton Way adjacent to the site at the approximate locations shown on Figure 2. The only subsurface feature known to the property owner in the vicinity of MW-1 and MW-3 was reported to be a sewer line running from the street toward the site building. The property owner indicated that to the best of his knowledge, it is in the vicinity of the former UST location (Figure 2). The sewer manhole cover observed at the approximate location shown on Figure 2 suggests that a sewer line is located near the former UST location, as shown on Figure 2.

Recorded depth to groundwater in the monitoring wells has ranged from approximately 3.5 feet bgs to approximately 16.5 bgs (Table 5). Typically the sewer is the deepest of the utility trenches and can be as deep as 6 to 8 feet bgs; however, the City of Santa Rosa Utility map indicates that the sewer line adjacent to the site is approximately 3.5 feet bgs. The other trenches present are not likely to be substantially deeper than this. It was therefore concluded that none of the nearby trenches would provide a significant preferential groundwater pathway in the vicinity of the site.

Site Conceptual Model Site Geology/Hydrogeology

The site is located within the southwest area of Santa Rosa and is surrounded by a mix of commercial, light industrial and residential properties. Beneficial uses of groundwater in the site vicinity are residential, industrial, and commercial.

The site lithology is best characterized as clayey material with fine gravel and sand from near surface to approximately 8 to 12 feet bgs. This layer is underlain by fine to coarse gravel with silt and sand present from approximately 20 feet bgs. Interbedded silt and sandy silt is present from approximately 20 feet to 30-35 feet bgs. Typically subsurface material has been observed to be moist to wet from approximately 10 to 15 feet bgs to 30 to 35 feet bgs, the maximum depth explored at the site.

Changes in depth to groundwater measurements indicate a seasonal fluctuation with high stands of groundwater in the late winter to early spring (January-April) months and low stands in late summer to early fall (August-November). Free groundwater is likely present during winter and spring (during times of elevated rainfall) in the gravel layer to approximately 10 ft bgs, according to site lithology and historical groundwater level measurements from the onsite monitoring wells. Historic groundwater elevation data indicates that confined or semi-confined (artesian) conditions may exist

during high stands of groundwater. The groundwater flow direction at the site has ranged from northwest to southwest at gradients from 0.03 to 0.1 (Table 5).

Groundwater Monitoring

Depth to groundwater measurements were collected on August 30, 2005 from each of the project monitoring wells (MW-1 through MW-5). Depth to groundwater measurements ranged from approximately 5.5 to 9.5 feet below existing ground surface (bgs). The depth to groundwater measurements and well casing elevations were used to calculate groundwater flow direction and gradient. Casing and groundwater elevations are reported in feet relative to mean sea level. Depth to groundwater is expressed in feet. The groundwater flow direction for this monitoring event was interpolated to be southwesterly at a calculated gradient of 0.01 (Figure 2 and Table 1).

Groundwater Sampling

Each well was checked for the presence of separate phase hydrocarbons (SPH) using an oil/water interface probe prior to purging. SPH was not present during this monitoring event. Each well was purged of approximately three wetted well casing volumes of groundwater, or at least five gallons, whichever was greater, using a submersible pump. Temperature, pH, conductivity, dissolved oxygen, and turbidity readings were measured during purging to help demonstrate that fresh groundwater was entering the well casing. Water levels in the wells were allowed to recover to approximately 80% of their static levels or for up to two hours prior to sampling. Groundwater samples were collected from the wells using a separate disposable bailer for each well. Groundwater samples were transferred to the appropriate laboratory-supplied containers for analysis. Samples were labeled, stored under refrigerated conditions, and transported under Chain-of-Custody documentation to Analytical Sciences (AS), a Department of Health Services-certified laboratory in Petaluma, California for analysis. All samples were collected following Standard Soil and Water Sampling Procedures and QA/QC Protocol. Sampling equipment was cleaned prior to use and between wells to prevent cross-contamination. Information collected during sampling activities was recorded on groundwater field sampling forms. Well Purge Records are presented in Appendix A. Purge water generated from recent well sampling is stored at the site in 55-gallon, UN/DOT-approved 17 E/H drums, pending characterization and disposal.

Laboratory Analysis

Groundwater samples collected from the monitoring wells were analyzed for total petroleum hydrocarbons as gasoline (TPH-g) by EPA Method 5030/8015M, and for VOCs by EPA Method 8260B full scan.

Groundwater Analytical Results

The analytical results for MW-1 through MW-5 for the August 30, 2005 sampling event are presented in Table 4. Historic groundwater analytical results are also presented in Table 4. Groundwater analytical data for TPH-g and benzene are plotted on time versus concentration diagrams (Diagrams A and B). The laboratory analytical report is presented in Appendix B.

Discussion

The most recent sampling event at the site occurred on August 30, 2005. Groundwater samples collected from MW-2, MW-3, and MW-5 during this event were below laboratory RDLs for all target analytes. The sample collected from MW-1 contained TPH-g at a concentration of 280 ug/L, ethylbenzene at a concentration of 1.0 ug/L, n-propylbenzene (a gasoline constituent) at a concentration of 1.9 ug/L, and was below the laboratory RDL for all other target analytes. The sample collected from MW-4 contained TPH-g at a concentration of 61 ug/L, tert-butylbenzene (a gasoline constituent) at a concentration of 3.1 ug/L, and was below the laboratory RDL for all other target analytes.

A review of historic groundwater data indicates that TPH-g has not exceeded the laboratory RDL in groundwater samples from MW-2, MW-3, and MW-5. Benzene has been detected above 1.0 ug/L (regulatory maximum contaminant limit) in MW-2 through MW-5 on four occasions. All of benzene detections above the MCL occurred in samples collected from MW-2. Benzene has not been present above the laboratory RDL in MW-2, MW-3, and MW-5 since November 2002.

A review of historic TPH-g concentration data, presented in Diagram A indicates a general decline in TPH-g concentrations in MW-1 over time since 1998. Diagram B presents historic benzene concentration data that indicates a general decline in benzene concentration in MW-1 with the maximum concentration of benzene of 5.2 ug/L occurring in October 2000. Analytical data for TPH-g and VOCs in MW-2 through MW-5 groundwater samples are generally slightly above or below the laboratory RDL.

Review of data collected during previous investigations indicates that soil impact is minimal and confined proximal to the former tank hold (Figures 5 and 6). A review of historic groundwater investigation data from both borings and monitoring wells indicates that impacted groundwater is generally confined proximal to the tank hold (Figures 7 and 8). An investigation conducted in June 2005 collected depth discrete groundwater samples (B-9, B-10, B-11) from the deeper water bearing zone at approximately 30 to 35 feet bgs. Results of this investigation indicate that impact to soil and groundwater is generally limited to the upper water-bearing zone.

Conclusions

The results of investigations conducted to date indicate that the impact to soil and groundwater is in the upper water-bearing zone, generally confined proximal to the former tank hold. A review of data collected and trendline analyses of TPH-g and benzene in groundwater indicates declining concentrations over time with seasonal fluctuations corresponding to seasonal changes in groundwater elevations. A review of groundwater analytical data, flow direction and gradient indicate that the exiting groundwater plume is shallow, confined to a limited area, static, and declining in concentration.

The sensitive receptor surveys revealed potential preferential pathways (buried utility corridors) at and in the site vicinity. Potential for contaminant transport through identified preferential pathways appears low based on subsurface lithology, groundwater elevation and flow, and the generally low to non-detect concentrations present in groundwater and soil samples from MW-2 through MW-5 and borings distal to the former tank hold.

Identified sensitive receptors (domestic water supply wells), have reportedly been supplied with alternative drinking water sources. No municipal water supply wells are located within 1 mile of the subject site. There is also little likelihood that the shallow groundwater will be put into beneficial uses in the foreseeable future. A limited soil and groundwater impact appears to be confined to the general vicinity of the former tank hold. The potential threat to human health by the minimal residual groundwater impact in the immediate vicinity of MW-1 is considered to be very low based upon the information gathered to date as part of the on-going investigations at the site.

Recommendations

Given the information and conclusions discussed above, SCS again recommends the site be considered for case closure. Upon receipt of NCRWQCB concurrence with this recommendation, the project monitoring wells (MW-1, MW-2, MW-3, MW-4 and MW-5) will be decommissioned in accordance with the "California Well Standards", Bulletins 74-81 and 74-90 by a licensed C-57 well driller and former well surface expressions restored to original conditions to the extent feasible.

Soil and Water Disposal

On September 1, 2005, 4 drums of non-hazardous soil, and 2 drums of non-hazardous water which were generated from site investigative activities were transported to Republic Services Vasco Road Landfill in Livermore, and Seaport Refining & Environmental disposal facility in Redwood City, respectively. Copies of the Certificates of Disposal are presented in Appendix B.

Attachments
File No. 01203314.00

Figures

- Figure 1: Site Location Map
- Figure 2: Site Plan
- Figure 3: Site Plan - Groundwater Flow Direction and Gradient for 08/30/05
- Figure 4: Sensitive Receptor Map
- Figure 5: Isoconcentration Map – Residual Benzene in Soil
- Figure 6: Isoconcentration Map – Residual TPH-g in Soil
- Figure 7: Isoconcentration Map – Residual Benzene in Groundwater
- Figure 8: Isoconcentration Map – Residual TPH-g in Groundwater

Diagrams and Tables

Key to Diagram and Tables

- Diagram A: TPH-g & Groundwater Elevation vs. Time
- Diagram B: Benzene & Groundwater Elevation vs. Time
- Table 1: Soil Sample Analytical Results – Borings B-1 through B-8
- Table 2: Groundwater Sample Analytical Results – Borings B-1 through B-11
- Table 3: Soil Sample Results – Monitoring Wells – MW-1 through MW-5
- Table 4: Groundwater Sample Analytical Results – Monitoring Wells - MW-1 through MW-5
- Table 5: Groundwater Flow Direction and Gradient
- Table 6: Sensitive Receptor Survey Results

Appendices

- Appendix A: Well Purge Records, dated August 30, 2005
- Appendix B: Analytical Sciences Report #5083102, dated September 9, 2005
Certificates of Disposal, dated September 1, 2005

Reference List
File No. 01203314.00

- Leepin, A., 1989. Letter to NCRWQCB re: UST Removal, October 31.
- Multi-Tech, 1986. Analytical report, March 4.
- NCRWQCB, 1989. Work Plan Directive, November 13.
- NCRWQCB, 1997. Work Plan Directive, June 6.
- NCRWQCB, 1999. Regulatory letter to USTCF, February 11.
- NCRWQCB, 2001. Work Plan Directive, November 21.
- NCRWQCB, 2004a. Request Additional Information for SRS, January 8.
- NCRWQCB, 2004b. Work Plan Approval, August 17.
- PNEG, 1996a. Work Plan for a Preliminary Site Investigation at the 1599 Hampton Way Site, Santa

Rosa, California, February 5.

PNEG, 1996b. Preliminary Site Investigation Report for the 1599 Hampton Way Site, Santa Rosa, California, November 22.

PNEG, 1997. Work Plan for Additional Site Investigation at the 1599 Hampton Way Site, Santa Rosa, California, December 12.

PNEG, 1998a. Report on Additional Site Investigation at the 1599 Hampton Way Site, Santa Rosa, California, May 19.

PNEG, 1998b. Work Plan for Additional Site Investigation at the 1599 Hampton Way Site, Santa Rosa, California, August 5.

PNEG, 1998c. Report on Quarterly Monitoring at the 1599 Hampton Way Site, Santa Rosa, California, September 1.

PNEG, 1999. Work Plan Revision for Additional Site Investigation at the 1599 Hampton Way Site, Santa Rosa, California, March 30.

PNEG, 2000a. Report on Additional Site Investigation at 1599 Hampton Way, Santa Rosa, California, February 3.

PNEG, 2000b. Report on January 2000 Quarterly Groundwater Monitoring Event at 1599 Hampton Way, Santa Rosa, California, March 14.

PNEG, 2000c. Report on 2nd Quarter 2000 Groundwater Monitoring Event at 1599 Hampton Way, Santa Rosa, California, June 26.

PNEG, 2000d. Report on 3rd Quarter 2000 Groundwater Monitoring Event at 1599 Hampton Way, Santa Rosa, California, September 5.

PNEG, 2000e. Report on 4th Quarter 2000 Groundwater Monitoring Event at 1599 Hampton Way, Santa Rosa, California, December 4.

PNEG, 2001a. Report on 1st Quarter 2001 Groundwater Monitoring Event at 1599 Hampton Way, Santa Rosa, California, June 6.

PNEG, 2001b. Work Plan for an Additional Site Investigation at the 1599 Hampton Way, Santa Rosa, California, June 14.

PNEG, 2002a. Work Plan Addendum for an Additional Site Investigation - 1599 Hampton Way, Santa Rosa, California, January 15.

PNEG, 2002b. Results of the 4th Quarter 2001 Groundwater Monitoring and Sampling Event at 1599 Hampton Way, Santa Rosa, California, February 14.

PNEG, 2002c. Results of the 1st Quarter 2002 Groundwater Monitoring and Sampling Event at 1599 Hampton Way, Santa Rosa, California, April 26.

PNEG, 2002d. Results of the 2nd Quarter 2002 Groundwater Monitoring and Sampling Event at 1599 Hampton Way, Santa Rosa, California, June 28.

PNEG, 2002e. Results of the 3rd Quarter 2002 Groundwater Monitoring and Sampling Event at 1599 Hampton Way, Santa Rosa, California, September 25.

PNEG, 2003a. Report on the Results of Additional Site Investigation - 1599 Hampton Way, Santa Rosa, California, January 7.

PNEG, 2003b. Results of the 1st Quarter 2003 Groundwater Monitoring and Sampling Event - 1599 Hampton Way, Santa Rosa, California, March 14.

PNEG, 2003c. Results of the 2nd Quarter 2003 Groundwater Monitoring and Sampling Event - 1599 Hampton Way, Santa Rosa, California, June 22.

SCS, 2003. Results of the 3rd Quarter 2003 Groundwater Monitoring and Sampling Event - 1599

Mr. Stephen Bargsten

October 24, 2005

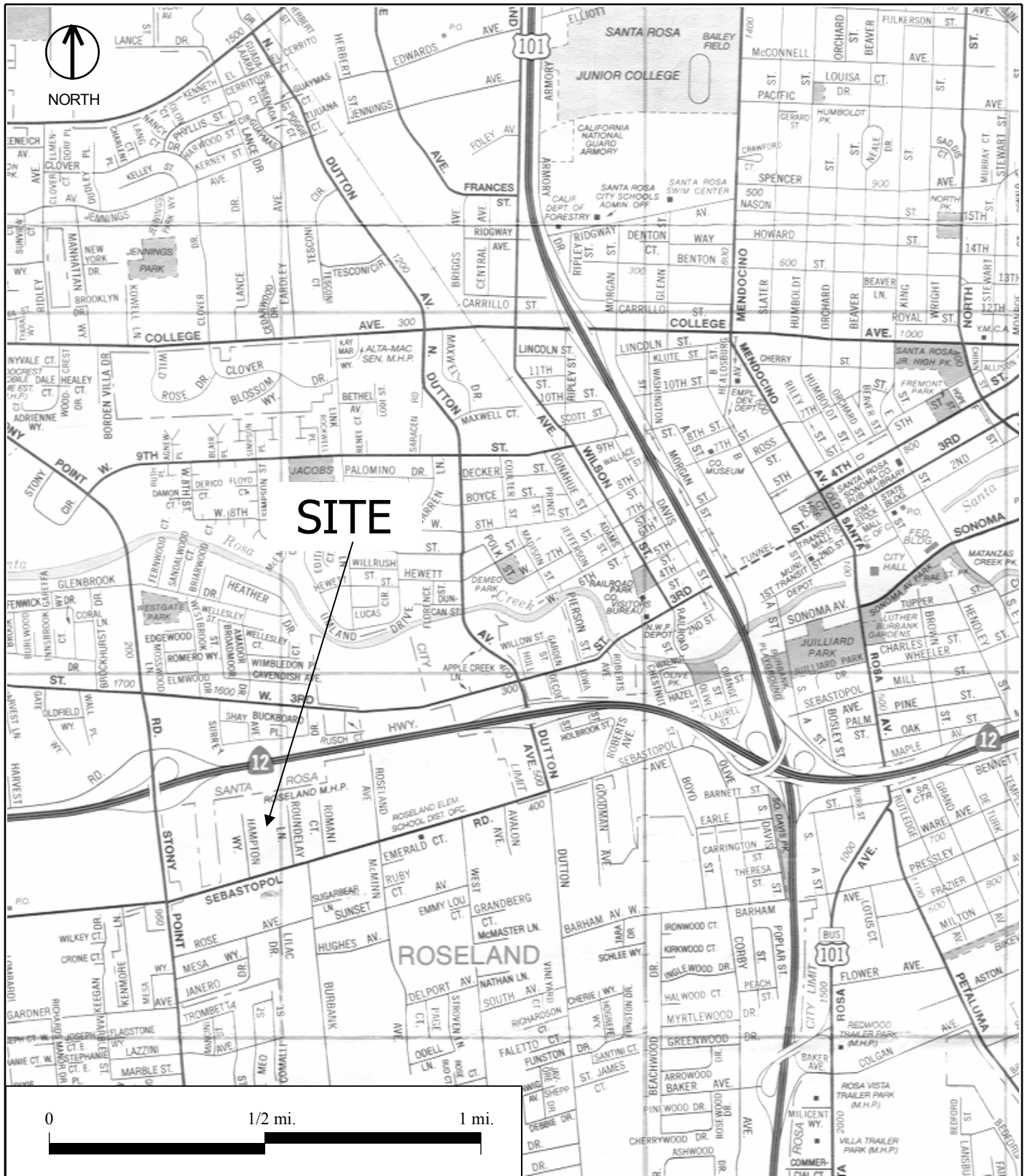
Page 9

Hampton Way, Santa Rosa, California, October 21.
SCS, 2004a. Results of the 1st Quarter 2004 Groundwater Monitoring and Sampling Event - 1599 Hampton Way, Santa Rosa, California, February 18.
SCS, 2004b. Work Plan for an Additional Site Investigation – 1599 Hampton Way, Santa Rosa, California, June 21.
SCS, 2005. Results of Additional Subsurface Investigation and Request for Case Closure – 1599 Hampton Way, Santa Rosa, California, June 27.

Distribution List
File No. 01203314.00

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c/o Mr. Phil Johnson
4591 Heath Circle
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Figures



SCS ENGINEERS

3645 WESTWIND BOULEVARD
 SANTA ROSA, CALIFORNIA
 PH: (707) 546-9461 FX: (707) 544-5769

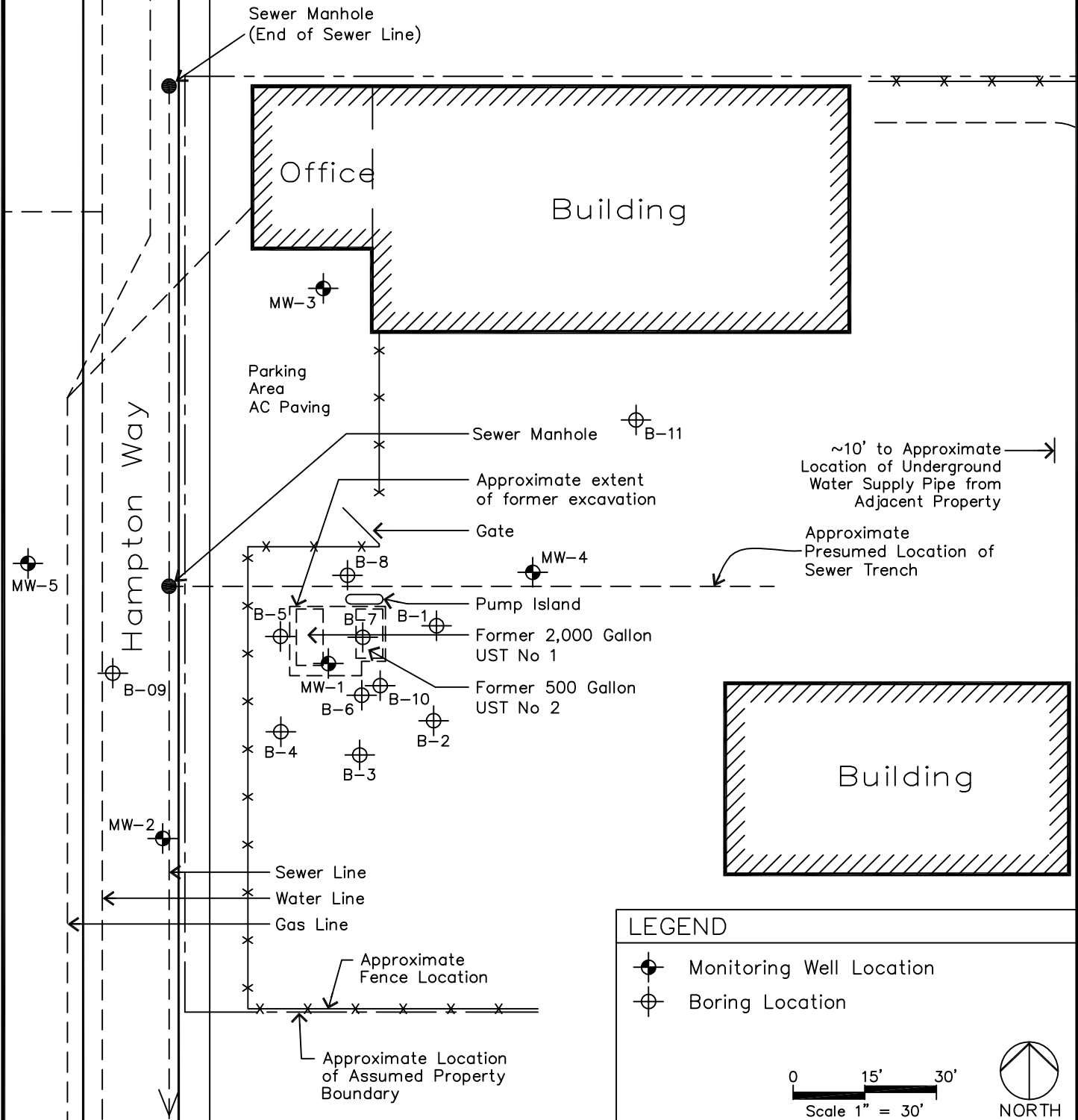
Site Location Map

1599 Hampton Way
 Santa Rosa, California

FIGURE
1

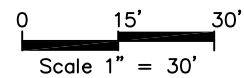
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NOTE: GPS revised - 9/02



LEGEND

- Monitoring Well Location
- Boring Location



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PROJ. NO.: 3314.00 DWN. BY: AJH ACAD FILE: 3314.00-SP2-3483

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SHEET TITLE:

SITE PLAN

PROJECT TITLE:

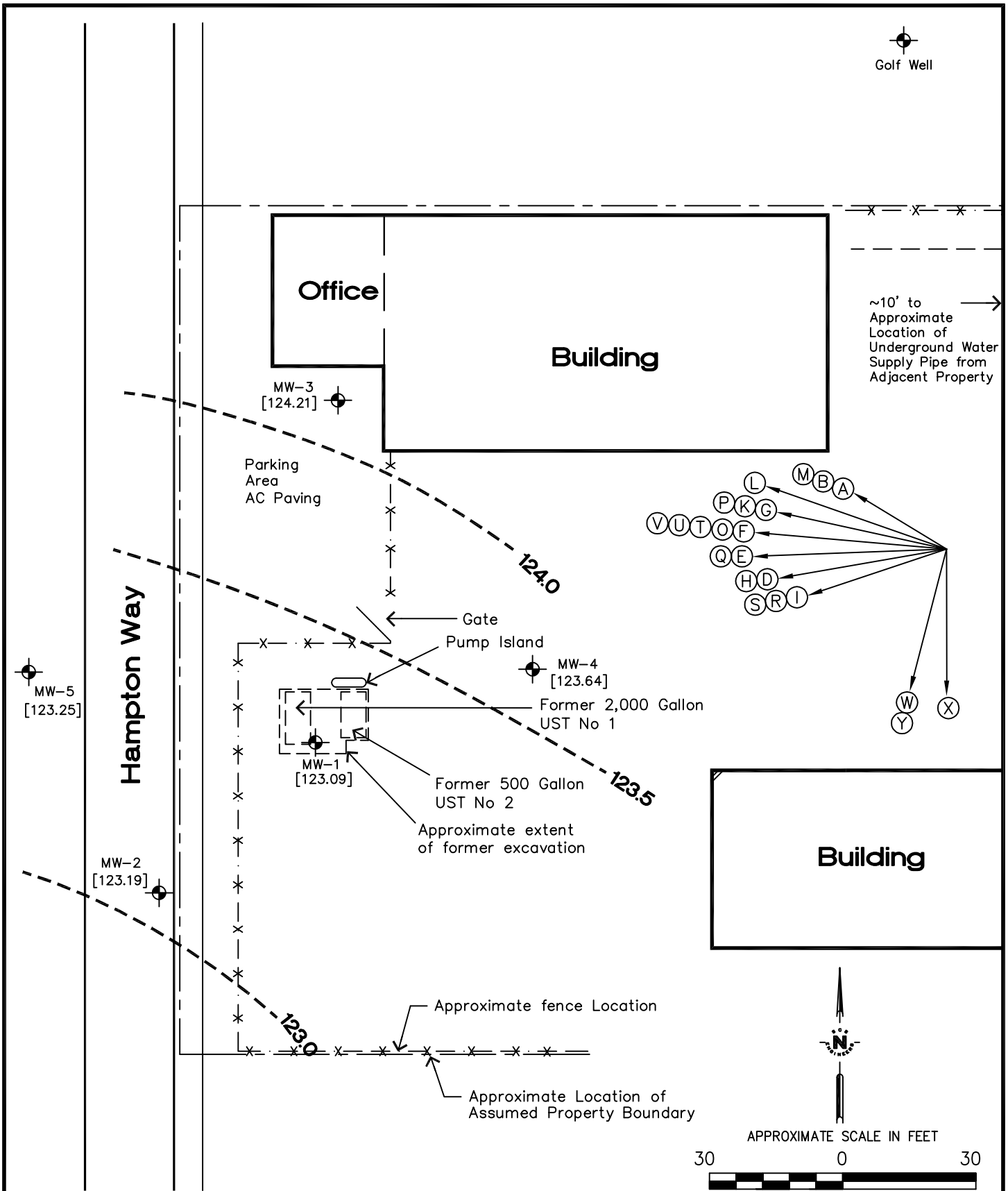
PHIL JOHNSON
1599 HAMPTON WAY
SANTA ROSA, CALIFORNIA

SCALE:

1" = 30'

FIGURE NO.:

2



SCS ENGINEERS ENVIRONMENTAL CONSULTANTS 3645 WESTWIND BOULEVARD SANTA ROSA, CALIFORNIA 95403 PH. (707) 546-9461 FAX. (707) 544-5769			SHEET TITLE: SITE PLAN GROUNDWATER FLOW DIRECTION AND GRADIENT FOR 8/30/05		SCALE: 1" = 30'
PROJ. NO.: 3314.00 DWN. BY: AJH ACAD. FILE: 3314.00-GW.Y-3512 DATE: 9/22/05 CHK. BY: APP. BY: SK			PROJECT TITLE: PHIL JOHNSON 1599 HAMPTON WAY SANTA ROSA, CALIFORNIA		FIGURE NO.: 3 SHEET 1 OF 2

[illegible]

 MW-1 Monitoring Well Location
 [XX.XX] Groundwater Elevation

□ □ Approx. Locations
 □ □ of former UST's

NOTE: Ground water elevations are in feet above mean sea level (National Geodetic Vertical Datum, 1929).

FIGURE NO.:
3
SHEET 2 OF 2



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PROJ. NO.	DWN. BY:	ACAD. FILE:
1203314.00	JJM	3314.00_Aerial_Site+Vic
DATE	CHK. BY:	APP. BY:
6-23-05	KLC	KLC

SHEET TITLE:

SENSITIVE RECEPTOR MAP

PROJECT TITLE:

PHIL JOHNSON
1599 HAMPTON WAY
SANTA ROSA, CALIFORNIA

SCALE:

1" = 333'

FIGURE NO.

4

NOTE: GPS revised - 9/02

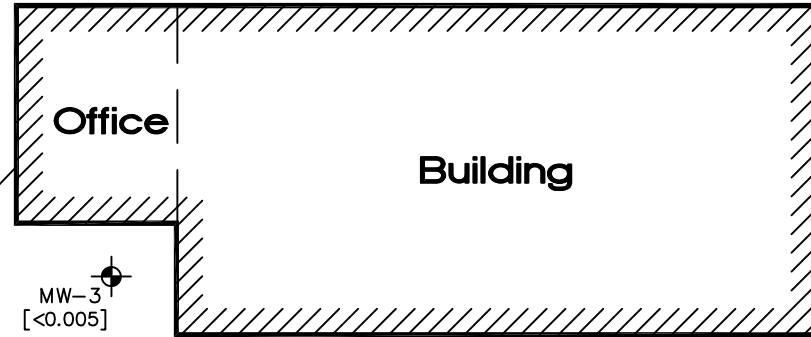
APPROXIMATE SCALE IN FEET



Golf Well



Sewer Manhole
(End of Sewer Line)



MW-3
[<0.005]

Parking Area
AC Paving

Sewer Manhole B-11

Approximate extent
of former excavation

Gate

~10' to Approximate
Location of Underground
Water Supply Pipe from
Adjacent Property

Approximate
Presumed Location of
Sewer Trench

MW-5

Hampton Way

B-09
[NA]

Pump Island

B-5

B-7

B-1

MW-1

B-10

Former 500 Gallon
UST No 2

B-6

B-2

B-4

B-3

B-4

B-3

B-3

B-3

B-3

B-3

B-3

B-3

B-3

B-3

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<0.005

Former 2,000 Gallon
UST No 1

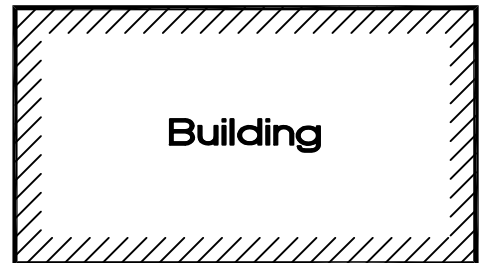
Sewer Line

Water Line

Gas Line

Approximate
Fence Location

Approximate Location
of Assumed Property
Boundary



LEGEND



Monitoring Well Location



Boring Location



Isoconcentration Line
Benzene, ug/kg

NOTE: Unless otherwise marked, all MWs
and Borings are <0.005

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PROJ. NO.: 3314.00 DWN. BY: AJH ACAD FILE: 3314-IS0.BZ.S-3516

DATE: 10/6/05 CHK. BY: APP. BY: SK

SHEET TITLE:

ISOCONCENTRATION MAP
RESIDUAL BENZENE IN SOIL

PROJECT TITLE:

PHIL JOHNSON
1599 HAMPTON WAY
SANTA ROSA, CALIFORNIA

SCALE:

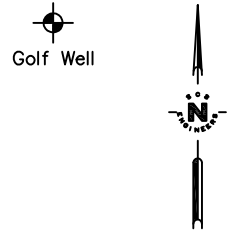
1" = 30'

FIGURE NO.:

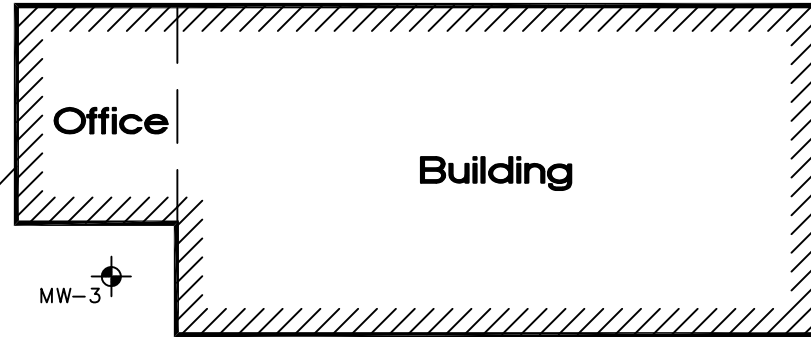
7

NOTE: GPS revised - 9/02

APPROXIMATE SCALE IN FEET



Sewer Manhole
(End of Sewer Line)



MW-3

Parking Area
AC Paving

Sewer Manhole B-11
[NA]

Approximate extent
of former excavation

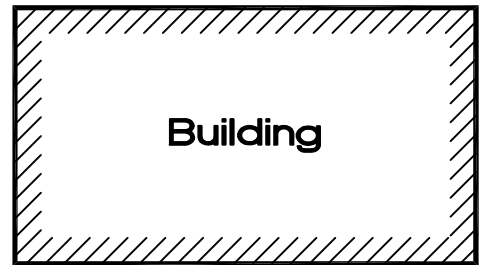
Gate

~10' to Approximate
Location of Underground
Water Supply Pipe from
Adjacent Property

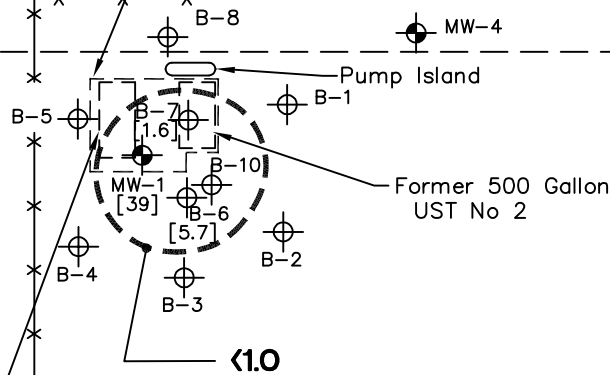
Approximate
Presumed Location of
Sewer Trench

Pump Island

Former 500 Gallon
UST No 2



Building



Former 2,000 Gallon
UST No 1

Sewer Line

Water Line

Gas Line

Approximate
Fence Location

Approximate Location
of Assumed Property
Boundary

LEGEND

Monitoring Well Location

Boring Location

Isoconcentration Line
TPH-g, mg/kg

NOTE: Unless otherwise marked, all MWs
and Borings are <1.0

SCS ENGINEERS

ENVIRONMENTAL CONSULTANTS

3645 WESTWIND BOULEVARD
SANTA ROSA, CALIFORNIA 95403
PH. (707) 546-9461 FAX. (707) 544-5769

PROJ. NO.: 3314.00 DWN. BY: AJH ACAD FILE: 3314-ISO.TPHg.S-3516

DATE: 10/6/05 CHK. BY: APP. BY: SK

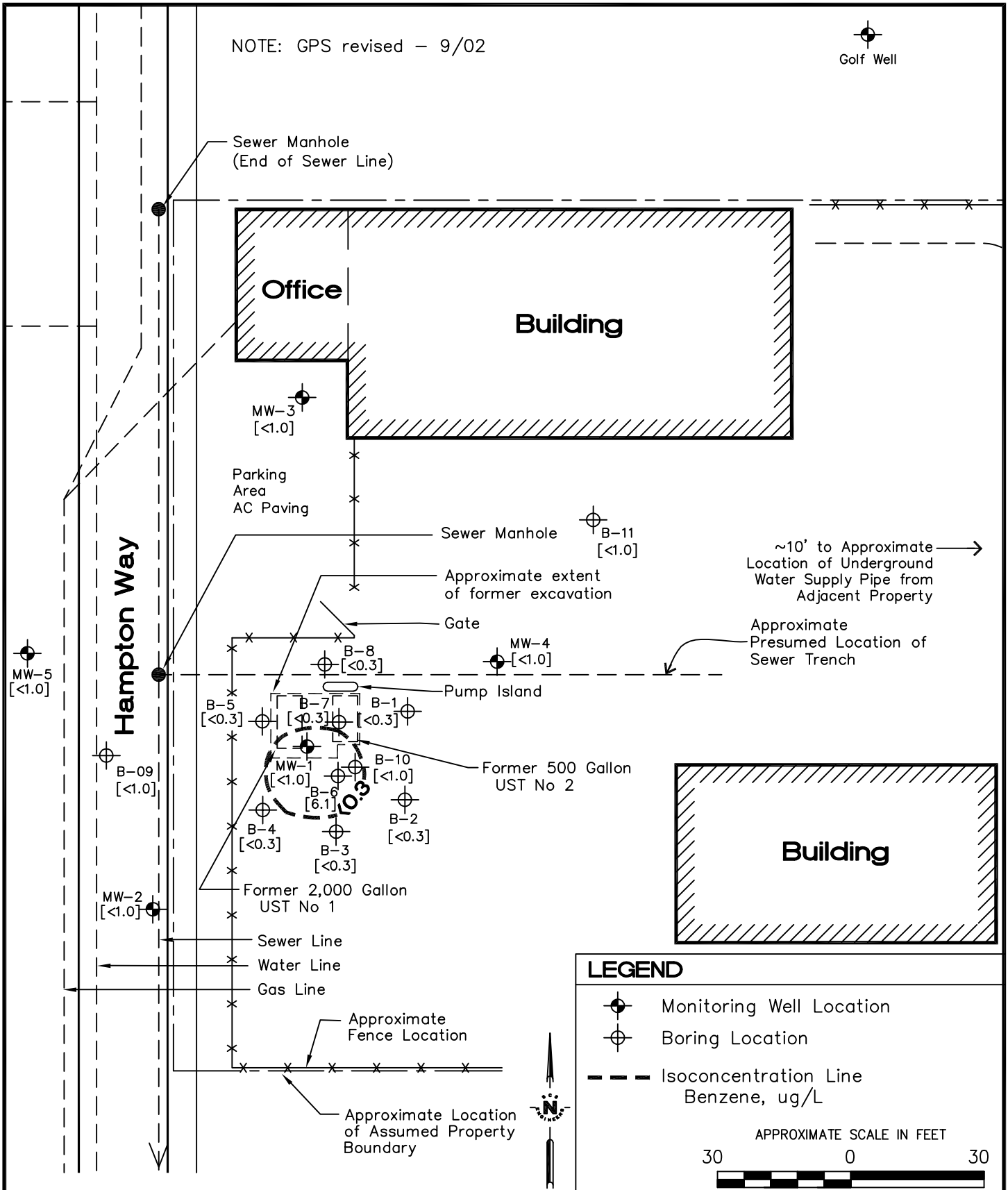
SHEET TITLE: ISOCONCENTRATION MAP
RESIDUAL TPH-g IN SOIL

PROJECT TITLE: PHIL JOHNSON
1599 HAMPTON WAY
SANTA ROSA, CALIFORNIA

SCALE:
1" = 30'

FIGURE NO.:
8

NOTE: GPS revised - 9/02



SCS ENGINEERS

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SANTA ROSA, CALIFORNIA 95403
PH. (707) 546-9461 FAX. (707) 544-5769

PROJ. NO.: 3314.00 DWN. BY: AJH ACAD FILE: 3314.00-ISO.BZGW-3516

DATE: 10/6/05 CHK. BY: APP. BY: SK

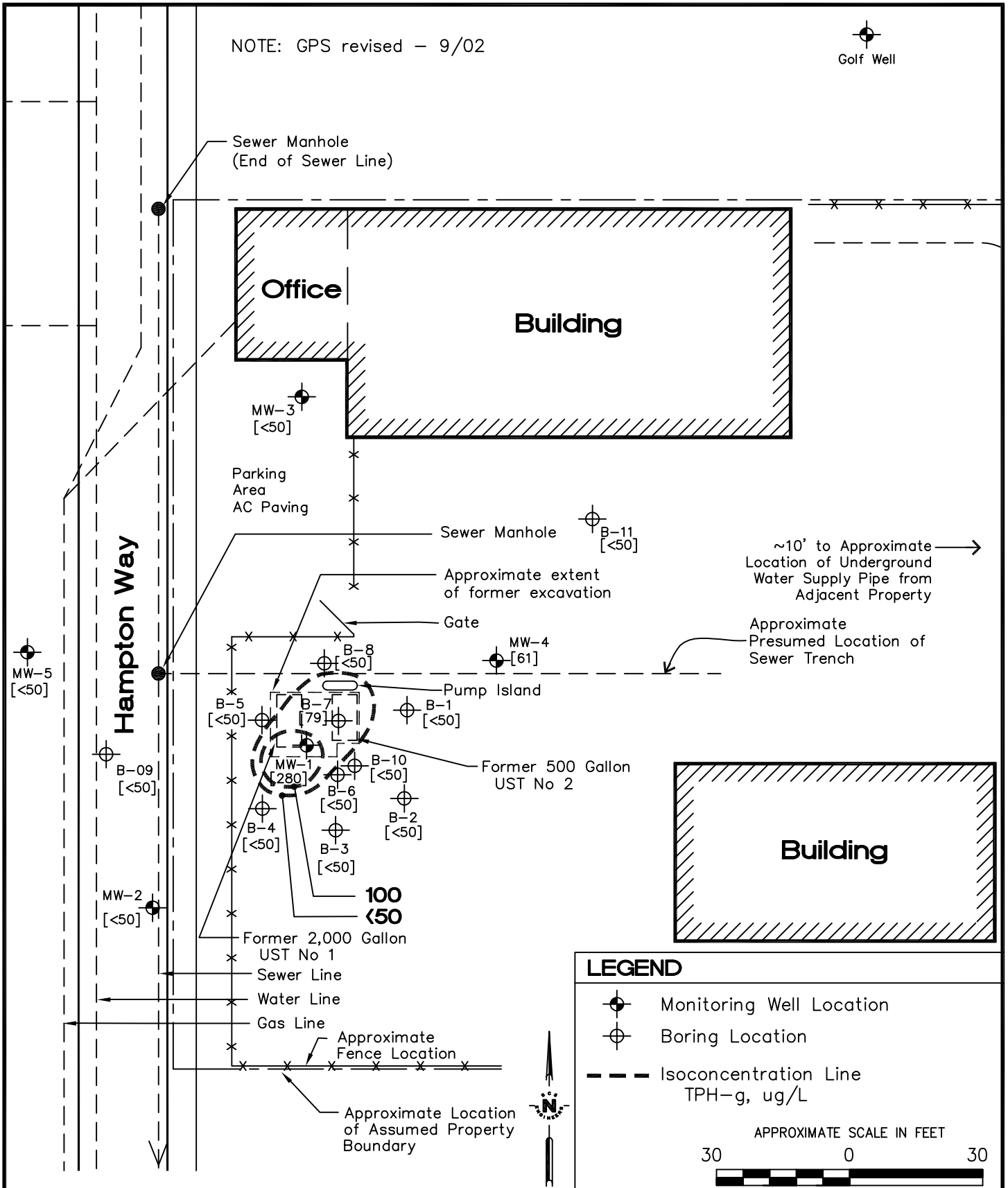
SHEET TITLE: ISOCONCENTRATION MAP
RESIDUAL BENZENE IN GROUNDWATER

PROJECT TITLE: PHIL JOHNSON
1599 HAMPTON WAY
SANTA ROSA, CALIFORNIA

SCALE:
1" = 30'

FIGURE NO.:
5

NOTE: GPS revised - 9/02



SCS ENGINEERS

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3645 WESTWIND BOULEVARD
SANTA ROSA, CALIFORNIA 95403
PH. (707) 546-9461 FAX. (707) 544-5769

PROJ. NO.: 3314.00 DWN. BY: AJH ACAD FILE: 3314-ISO.TPHgGW-3516

DATE: 10/6/05 CHK. BY: APP. BY: SK

SHEET TITLE: ISOCONCENTRATION MAP
RESIDUAL TPH-g IN GROUNDWATER

PROJECT TITLE: PHIL JOHNSON
1599 HAMPTON WAY
SANTA ROSA, CALIFORNIA

SCALE:
1" = 30'

FIGURE NO.:
6

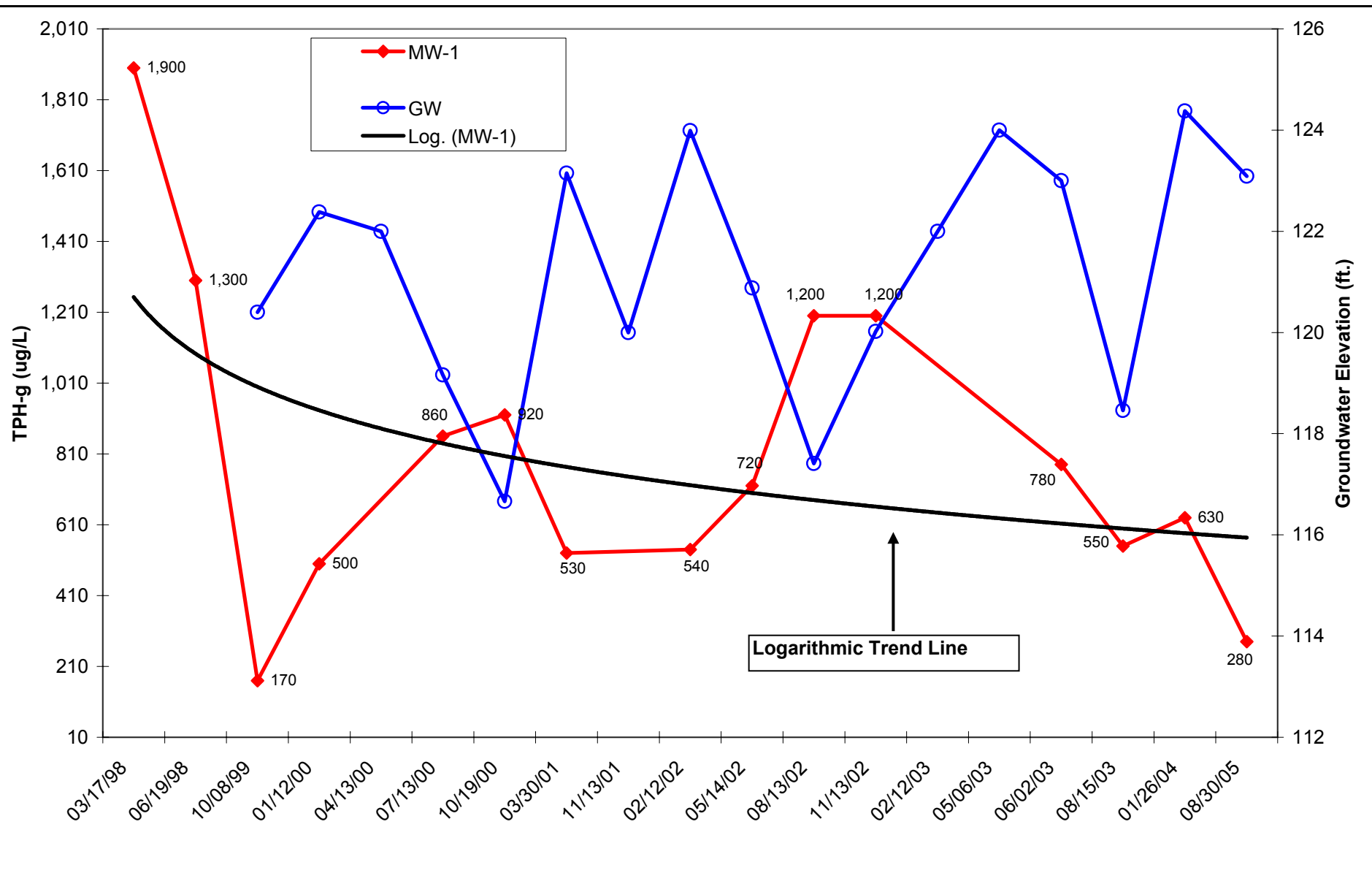
Diagrams and Tables

Key to Diagram and Tables
1599 Hampton Way, Santa Rosa

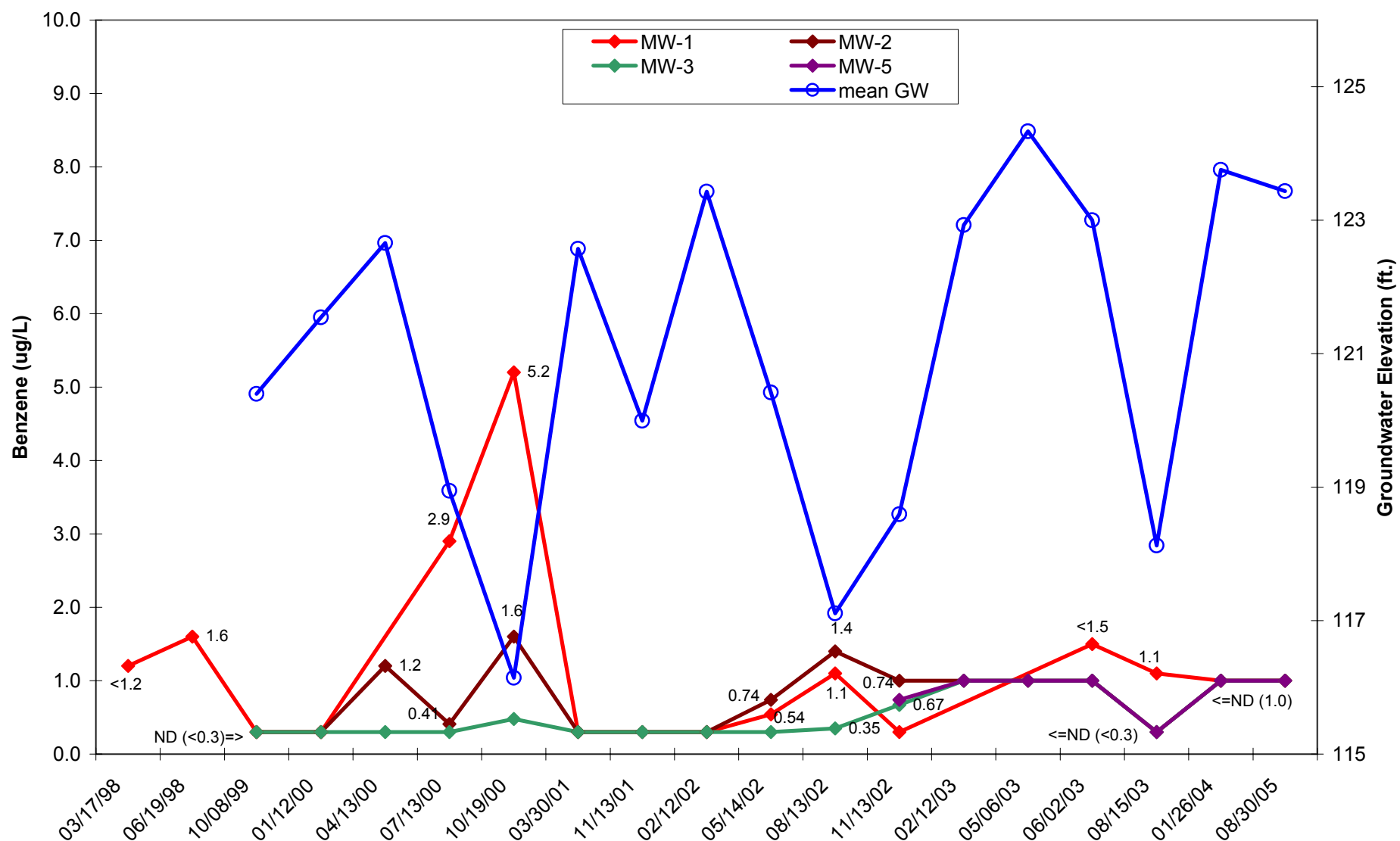
TPH-g	=	Total petroleum hydrocarbons in the gasoline range
B	=	Benzene
T	=	Toluene
E	=	Ethylbenzene
X	=	Xylenes
MTBE	=	Methyl tertiary butyl ether
Five Oxys	=	Five ether-based oxygenates [diisopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tert-amyl methyl ether (TAME), MTBE, and tert-butyl alcohol (TBA)]
EDC	=	Ethylene dichloride ²
EDB	=	Ethylene dibromide ³
Pb Scavs	=	Lead scavengers (EDC, EDB)
mg/kg	=	Milligrams per kilogram
μg/L	=	Micrograms per liter

² EDC has been referred to as 1,2-dichloroethane (1,2-DCA) in previous reports.

³ EDB has been referred to as 1,2-dibromoethane (1,2-DBA) in previous reports.



SCS ENGINEERS		TPH-g & GROUNDWATER ELEVATION vs TIME	DIAGRAM
3645 WESTWIND BOULEVARD SANTA ROSA, CALIFORNIA PH: (707) 546-9461 FX: (707)544-5769		1599 Hampton Way Santa Rosa, California	A
Drawn By: KLC	File Name: TPH-g-GW	Job Number: 01203314.00	DATE: 09/13/05



SCS ENGINEERS

3645 WESTWIND BOULEVARD
SANTA ROSA, CALIFORNIA
PH: (707) 546-9461 FX: (707) 544-5769

Drawn By: KLC

File Name: TPH-g-GW

BENZENE & GROUNDWATER ELEVATION vs TIME

1599 Hampton Way
Santa Rosa, California

Job Number: 01203314.00

DIAGRAM

B

DATE: 09/13/05

**Table 1: Soil Sample Analytical Results - Borings B-1 through B-8
1599 Hampton Way, Santa Rosa, California**

Sample Number	Date Sampled	TPH-g	B	T	E	X
		-----mg/kg -----				
B-1-5'	08/22/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-1-10'	08/22/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-1-15'	08/22/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-1-20'	08/22/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-2-5'	08/22/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-2-10'	08/22/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-2-15'	08/22/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-2-20'	08/22/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-3-5'	08/22/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-3-10'	08/22/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-3-15'	08/22/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-3-20'	08/22/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-4-5'	08/22/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-4-10'	08/22/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-4-15'	08/22/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-4-20'	08/22/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-5-5'	08/23/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-5-10'	08/23/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-5-15'	08/23/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-5-19'	08/23/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-6-5'	08/23/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-6-10'	08/23/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-6-14.5'	08/23/96	5.7	0.0078	0.0068	0.029	0.043
B-6-19.5'	08/23/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-7-6'	08/23/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-7-9'	08/23/96	1.6*	<0.005	<0.005	<0.005	0.0074
B-7-14'	08/23/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-7-20.5'	08/23/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-8-5'	08/23/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-8-10'	08/23/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-8-14.5'	08/23/96	<1.0	<0.005	<0.005	<0.005	<0.005
B-8-20'	08/23/96	<1.0	<0.005	<0.005	<0.005	<0.005

* = Atypical Pattern.

**Table 2: Groundwater Sample Analytical Results - Borings B-1 through B-11
1599 Hampton Way, Santa Rosa, California**

Sample Number	Date Sampled	TPH-g	B	T	E	X
		-----ug/L-----				
B-1-Water	08/22/96	<50	<0.3	<0.3	<0.3	<0.3
B-2-Water	08/22/96	<50	<0.3	<0.3	<0.3	<0.3
B-3-Water	08/22/96	<50	<0.3	<0.3	<0.3	<0.3
B-4-Water	08/22/96	<50	<0.3	<0.3	<0.3	<0.3
B-5-Water	08/23/96	<50	<0.3	0.42	<0.3	<0.3
B-6-Water	08/23/96	<50	6.1	<0.3	1.0	1.4
B-7-Water	08/23/96	79	<0.3	<0.3	4.1	2.3
B-8-Water	08/23/96	<50	<0.3	<0.3	<0.3	<0.3
B-09-W@35.0'	06/01/05	<50	<1.0	14	<1.0	<1.0
B-10-W@30.0'	06/01/05	<50	<1.0	<1.0	<1.0	<1.0
B-11-W@30.0'	06/01/05	<50	<1.0	1.6	<1.0	<1.0

**Table 3: Soil Sample Analytical Results - Monitoring Wells - MW-1 through MW-5
1599 Hampton Way, Santa Rosa, California**

Sample Number	Date Sampled	TPH-g	B	T	E	X	MTBE	8260*
		-----mg/kg-----						
MW-1-5'	03/11/98	<1.0	<0.005	<0.005	<0.005	<0.005	<1.0	<0.005
MW-1-10'	03/11/98	<1.0	<0.005	<0.005	<0.005	<0.005	<1.0	<0.005
MW-1-13.5'	03/11/98	39	<0.005	<0.005	0.0072	0.010	<1.0	<0.005
MW-2-5'	09/30/99	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-2-10'	09/30/99	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-2-13'	09/30/99	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-3-5'	09/30/00	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-3-10'	09/30/99	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-3-13'	09/30/99	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-4-5'	11/08/02	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.01
MW-4-10'	11/08/02	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.01
MW-4-12'	11/08/02	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.01
MW-4-15'	11/08/02	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.01
MW-5-5'	11/08/02	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.01
MW-5-10'	11/08/02	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.01
MW-5-12'	11/08/02	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.01
MW-5-15'	11/08/02	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.01

* Additional VOC's by EPA method 8260 were None detect.

Table 4: Groundwater Sample Analytical Results - Monitoring Wells - MW-1 through MW-5
1599 Hampton Way, Santa Rosa, California

ID	Date	TPH-g	B	T	E	X	MTBE	DIPE	ETBE	TAME	TBA	s-butylbenzene	t-butylbenzene	n-butylbenzene	n-propylbenzene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	sec-butylbenzene	tert-butylbenzene	isopropylbenzene	naphthalene	p-isopropyltoluene	4-isopropyltoluene	bromodichlormethane	acetone	methylethylketone
		-----ug/L-----																								
MW-1	03/17/98	1,900	<1.2	<3.9	2.2	1.3	<9.0	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
	06/19/98	1,300	1.6	ND	18	6.4	0.61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/08/99	170	<0.30	<0.50	1.3	1.4	<0.50	<0.50	<0.50	<0.50	<10	0.52	1.8	<0.50	0.86	4.8	0.94	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<5.0
	01/12/00	500	<0.30	<0.30	0.78	<0.50	<0.50	<0.50	<0.50	<0.50	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/13/00	Well inaccessible																								
	07/13/00	860	2.9	1.1	23	12.5	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	16	58	11	<0.50	4.5	6.8	4.0	<0.50	<0.50	<0.50	<5.0	<1.0
	10/19/00	920	5.2	0.7	22	9.1	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	3.7	15	42	8.1	2.2	4.6	5.4	4.5	<0.50	0.79	<0.50	<5.0	<1.0
	03/30/01	530	<0.30	<0.50	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	3.2	4.7	4.3	2.7	2.4	3.9	2.4	1.6	1.2	<0.50	1.0	<5.0	<1.0
	11/13/01	Well inaccessible																								
	02/12/02	540	<0.30	<0.30	0.87	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	2.1	5.1	0.89	1.0	3.2	5.8	2.2	<5.0	<0.50	<0.50	<0.50	21	<1.0
	05/14/02	720	0.54	0.38	0.66	0.87	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	1.2	1.8	0.67	<0.50	2.2	4.9	1.6	1.8	<0.50	<0.50	<0.50	9.1	<1.0
	08/13/02	1,200	1.1	0.47	12	5.1	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	4.0	1.3	0.88	1.0	6.5	2.7	2.1	0.71	<0.50	<0.50	<5.0	<1.0
	11/13/02	1,200	<0.3	0.33	1.1	1.5	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	2.8	3.7	0.96	<0.50	5.1	7.0	1.8	1.3	<0.50	<0.50	<0.50	<5.0	<1.0
	02/12/03	Well was inaccessible																								
	05/06/03	Well was inaccessible																								
	06/02/03	780	<1.5	<1.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<25	<5.0
	08/15/03	550	1.1	3.3	4.3	8.5	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	2.2	2.1	0.67	<0.50	5.9	0.99	1.9	<0.50	<0.50	<0.50	<5.0	<1.0
	01/26/04	630	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	4.1	<1.0	<1.0	2.6	5.7	1.7	<1.0	<1.0	<1.0	<1.0	NA	NA
	08/30/05	280	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA
MW-2	10/08/99	<50	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0
	01/12/00	<50	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/13/00	<50	1.2	1.1	0.52	1.3	<0.50	<0.50	<0.50	<0.50	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/13/00	<50	0.41	<0.50	1.2	6.3	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0
	10/19/00	<50	1.6	0.33	0.64	0.61	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0
	03/30/01	<50	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0
	11/13/01	<50	<0.3	<0.3	<0.5	<0.5	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0
	02/12/02	<50	<0.3	<0.3	<0.5	<0.5	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0
	05/14/02	<50	0.74	1.6	0.61	1.7	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	0.68	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	60	<1.0
	08/13/02	<50	1.4	1.6	1.3	4.3	2.2	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	1.0	0.63	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0
	11/13/02	<50	1.0	0.71	1.1	2.8	1.0	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	0.87	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0
	2/12/03 ¹	<50	<1.0	<1.0	1.4	2.1	<1.0	<1.0	<1.0	<1.0	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/06/03	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA
	08/15/03	<50	<0.3	0.81	<0.5	1.2	9.1	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0
	01/26/04	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA
	08/30/05	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA

¹ Also ND for 1,2-dibromomethane and 1,2-dichloroethane

Table 4: Groundwater Sample Analytical Results - Monitoring Wells - MW-1 through MW-5
1599 Hampton Way, Santa Rosa, California

ID	Date	TPH-g	B	T	E	X	MTBE	DIPE	ETBE	TAME	TBA	s-butylbenzene	t-butylbenzene	n-butylbenzene	n-propylbenzene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	sec-butylbenzene	tert-butylbenzene	isopropylbenzene	naphthalene	p-isopropyltoluene	4-isopropyltoluene	bromodichloromethane	acetone	methylethylketone
		-----ug/L-----																								
MW-3	10/08/99	<50	<0.30	<0.50	<0.50	0.74	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	01/12/00	<50	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/13/00	<50	<0.30	0.34	<0.50	<0.50	2.5	<0.50	<0.50	<0.50	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/13/00	<50	<0.30	<0.30	<0.50	0.7	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0
	10/19/00	<50	0.48	0.32	0.96	1.1	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	0.52	<0.50	<0.50	<0.50	<0.50	0.59	<0.50	<0.50	<0.50	<5.0	<1.0
	03/30/01	<50	<0.30	<0.50	<0.50	<0.50	9.7	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0
	11/13/01	<50	<0.3	<0.3	<0.5	<0.5	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0
	02/12/02	<50	<0.3	<0.3	<0.5	<0.5	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0
	05/14/02	<50	<0.3	0.43	<0.5	<0.5	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0
	08/13/02	<50	0.35	0.57	0.57	1.9	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	0.86	0.59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	5.1
	11/13/02	<50	0.67	0.52	0.96	2.5	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	0.84	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0
	2/12/03 ¹	<50	<1.0	<1.0	1.7	2.4	<1.0	<1.0	<1.0	<1.0	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/06/03	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
08/15/03	<50	<0.3	<0.3	<0.5	<0.5	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	
01/26/04	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	
08/30/05	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	
MW-4	11/13/02	<50	<0.3	<0.3	<0.5	<0.5	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.62	0.52	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0
	02/12/03	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	
	05/06/03	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	
	08/15/03	<50	<0.3	1.3	0.82	3.3	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0
	01/26/04	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	
MW-5	08/30/05	61	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
	11/13/02	<50	0.74	0.55	0.9	2.4	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0
	02/12/03	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	
	05/06/03	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	
	08/15/03	<50	<0.3	1.3	0.82	3.3	0.62	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0
	01/26/04	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	
08/30/05	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA		

¹ Also ND for 1,2-dibromomethane and 1,2-dichloroethane

**Table 5: Groundwater Flow Direction and Gradient
1599 Hampton Way, Santa Rosa, California**

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Water (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction and Gradient (i)
MW-1	10/08/98	130.16	9.76	120.40	N70°W i = 0.1
MW-2		129.96	11.88	118.08	
MW-3		131.42	12.45	118.97	
MW-1	01/12/00	130.16	7.78	122.38	N70°W i = 0.057
MW-2		129.96	8.82	121.14	
MW-3		131.42	10.30	121.12	
MW-1	04/13/00	130.16	Well inaccessible		Not Calculated
MW-2		129.96	7.25	122.71	
MW-3		131.42	8.15	123.27	
MW-1	06/23/00*	130.16	10.14	120.02	S85°W i = 0.033
MW-2		129.96	11.21	118.75	
MW-3		131.42	10.83	120.59	
MW-1	07/13/00	130.16	11.00	119.16	Due West i = 0.04
MW-2		129.96	12.15	117.81	
MW-3		131.42	11.55	119.87	
MW-1	10/19/00	130.16	13.50	116.66	N85°W i = 0.03
MW-2		129.96	15.79	114.17	
MW-3		131.42	13.82	117.60	
MW-1	03/30/01	130.16	7.01	123.15	N80°W i = 0.04
MW-2		129.96	8.36	121.60	
MW-3		131.42	8.45	122.97	
MW-1	09/11/01	130.16	13.23	116.93	S85°W i = 0.07
MW-2		129.96	15.43	114.53	
MW-3		131.42	13.42	118.00	
MW-1	10/16/01	130.16	14.23	115.93	S80°W i = 0.06
MW-2		129.96	16.46	113.50	
MW-3		131.42	14.40	117.02	
MW-1	11/13/01	130.16	Well inaccessible		Not calculated
MW-2		129.96	9.21	120.75	
MW-3		131.42	12.18	119.24	
MW-1	12/12/01	130.16	5.19	124.97	N80°W i = 0.05
MW-2		129.96	6.40	123.56	
MW-3		131.42	6.71	124.71	

**Table 5: Groundwater Flow Direction and Gradient
1599 Hampton Way, Santa Rosa, California**

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Water (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction and Gradient (i)
MW-1	01/15/02	130.16	3.35	126.81	N75°W i = 0.04
MW-2		129.96	4.33	125.63	
MW-3		131.42	4.99	126.43	
MW-1	02/12/02	130.16	6.17	123.99	N70°W i = 0.06
MW-2		129.96	7.10	122.86	
MW-3		131.42	7.98	123.44	
MW-1	03/12/02	130.16	Well inaccessible		Not calculated
MW-2		129.96	5.87	124.09	
MW-3		131.42	7.33	124.09	
MW-1	04/16/02	130.16	8.32	121.84	N85°W i = 0.05
MW-2		129.96	9.61	120.35	
MW-3		131.42	9.52	121.90	
MW-1	05/14/02	130.16	9.28	120.88	N80°W i = 0.03
MW-2		129.96	10.45	119.51	
MW-3		131.42	10.55	120.87	
MW-1	06/11/02	130.16	10.55	119.61	Westerly
MW-2		129.96	11.73	118.23	
MW-3		131.42	11.30	120.12	
MW-1	07/16/02	130.16	11.96	118.20	S80°W i = 0.02
MW-2		129.96	13.45	116.51	
MW-3		131.42	12.35	119.07	
MW-1	08/13/02	130.16	12.75	117.41	S80°W i = 0.02
MW-2		129.96	14.42	115.54	
MW-3		131.42	13.04	118.38	
MW-1	11/13/02	130.16	10.14	120.02	Westerly i = 0.04
MW-2		129.96	11.65	118.31	
MW-3		131.42	13.05	118.37	
MW-4		130.65	11.56	119.09	
MW-5		129.94	12.26	117.68	
MW-1	02/12/03*	130.16	Well inaccessible		Westerly i = 0.01
MW-2		129.87	6.99	122.88	
MW-3		131.33	7.45	123.88	
MW-4		130.35	6.45	123.90	
MW-5		129.84	6.89	122.95	

**Table 5: Groundwater Flow Direction and Gradient
1599 Hampton Way, Santa Rosa, California**

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Water (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction and Gradient (i)
MW-1	05/06/03	130.16*	Well inaccessible		Westerly i = 0.01
MW-2		129.87	5.10	124.77	
MW-3		131.33	6.91	124.42	
MW-4		130.35	5.25	125.10	
MW-5		129.84	5.69	124.15	
MW-1	08/15/03	130.16*	11.70	118.46	Southwesterly i = 0.02
MW-2		129.87	13.10	116.77	
MW-3		131.33	12.05	119.28	
MW-4		130.35	11.95	118.40	
MW-5		129.84	11.85	117.99	
MW-1	01/26/04	130.16*	5.78	124.38	Southerly i = 0.03
MW-2		129.87	6.68	123.19	
MW-3		131.33	7.12	124.21	
MW-4		130.35	6.71	123.64	
MW-5		129.84	6.59	123.25	
MW-1	08/30/05	130.16*	7.07	123.09	Southwesterly i = 0.01
MW-2		129.87	7.64	123.19	
MW-3		131.33	9.43	124.21	
MW-4		130.35	9.10	123.64	
MW-5		129.84	5.51	123.25	

* All MWs except MW-1 (inaccessible) resurveyed on this date. Therefore MW-1 was not used for groundwater flow direction and gradient calculations.

Table 6: Sensitive Site Receptor Survey Results
1599 Hampton Way, Santa Rosa, California

Address	Well Y/N	Use	Water Utility Customer Y/N	Comments/Source
1503 Hampton Way	N		Y	Water utility records
1524 Hampton Way	?		N	Tenant did not know well status. Presume water supply from on-site or adjacent well.
1572 Hampton Way	Y	Domestic*	N	* Tenant uses bottled drinking water. He understands that on-site well was shown to be contaminated during investigation of nearby site several years ago.
1589 Hampton Way	N		Y	Water utility records
1594 Hampton Way 1596 Hampton Way	Y	Domestic	N	some tenants use bottled drinking water, others unaware of water supply source.
1595 Hampton Way	Y	Domestic*	N	* Tenant uses bottled drinking water.
1599 Hampton Way	N*		N	* Tenants believe that water source is an adjacent well.
1700 Hampton Way	Y	Irrigation	Y	Water utility records
1511 Sebastopol Rd.	N		Y	Water utility records
1569 Sebastopol Rd.	N		Y	Water utility records
1583 Sebastopol Rd.	?		N	Not contacted
1585 Sebastopol Rd.	Y	Irrigation	Y	Water utility records
1587 Sebastopol Rd.	Y	Irrigation	Y	Water utility records
1591 Sebastopol Rd.	N		Y	Water utility records
1611 Sebastopol Rd.	N		Y	Water utility records
1665 Sebastopol Rd.	N		Y	Water utility records
1701 Sebastopol Rd.	N		Y	Water utility records
1723, 1755 Sebastopol Rd.	Y	Irrigation	Y	Water utility records
1733 Sebastopol Rd.	N		Y	Water utility records
1558 Sebastopol Rd.	N		Y	Water utility records
1562 Sebastopol Rd.	Y	Domestic	N	Tenant interview
1580 Sebastopol Rd.	N		Y	Water utility records
1600-1630 Sebastopol Rd.	N		Y	Water utility records
1660 Sebastopol Rd.	N*		N	* No well on site, according to long-time next-door resident.
1680 Sebastopol Rd.	N		Y	Water utility records
1720 Sebastopol Rd.	N		Y	Water utility records

Appendices

Appendix A

Well Purge Records, dated August 30, 2005

Appendix B

**Analytical Sciences Report #5083102
dated September 9, 2005**

Certificates of Disposal, dated September 1, 2005



September 09, 2005

Kevin Coker
SCS Engineers
3645 Westwind Blvd
Santa Rosa CA, 95403

Dear Kevin,

Enclosed you will find Analytical Sciences' final report 5083102 for your 1599 Hampton Way project.
An invoice for this work is enclosed.

Should you or your client have any questions regarding this report please contact me at your convenience. We appreciate you selecting Analytical Sciences for this work and look forward to serving your analytical chemistry needs on projects in the future.

Sincerely,

Analytical Sciences

Mark A. Valentini, Ph.D.

Laboratory Director



Report Date: September 09, 2005

Laboratory Report

Kevin Coker
SCS Engineers
3645 Westwind Blvd
Santa Rosa CA, 95403

Project Name: **1599 Hampton Way** **01203314.00**
Lab Project: **5083102**

This 18 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.
Laboratory Director



TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5083102-01	MW-1	Gasoline	280	50

Date Sampled:	08/30/05	Date Analyzed:	08/31/05	QC Batch: B000045
Date Received:	08/31/05	Method:	EPA 5030/8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5083102-02	MW-2	Gasoline	ND	50

Date Sampled:	08/30/05	Date Analyzed:	08/31/05	QC Batch: B000045
Date Received:	08/31/05	Method:	EPA 5030/8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5083102-03	MW-3	Gasoline	ND	50

Date Sampled:	08/30/05	Date Analyzed:	08/31/05	QC Batch: B000045
Date Received:	08/31/05	Method:	EPA 5030/8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5083102-04	MW-4	Gasoline	61	50

Date Sampled:	08/30/05	Date Analyzed:	08/31/05	QC Batch: B000045
Date Received:	08/31/05	Method:	EPA 5030/8015	



TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5083102-05	MW-5	Gasoline	ND	50

Date Sampled:	08/30/05	Date Analyzed:	08/31/05	QC Batch: B000045
Date Received:	08/31/05	Method:	EPA 5030/8015	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5083102-01	MW-1	Dichlorodifluoromethane	ND	1.0
		Chloromethane	ND	1.0
		Vinyl chloride	ND	1.0
		Bromomethane	ND	1.0
		Chloroethane (CE)	ND	1.0
		Trichlorofluoromethane	ND	1.0
		1,1-Dichloroethene	ND	1.0
		Methylene Chloride	ND	1.0
		trans-1,2-Dichloroethylene	ND	1.0
		1,1-Dichloroethane	ND	1.0
		cis-1,2-Dichloroethylene	ND	1.0
		2,2-Dichloropropane	ND	1.0
		Chloroform	ND	1.0
		Bromochloromethane	ND	1.0
		1,1,1-Trichloroethane	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		Carbon Tetrachloride	ND	1.0
		Benzene	ND	1.0
		Trichloroethene	ND	1.0
		1,2-Dichloropropane	ND	1.0
		Dibromomethane	ND	1.0
		Bromodichloromethane	ND	1.0
		Toluene	ND	1.0
		1,1,2-Trichloroethane	ND	1.0
		1,3-Dichloropropane	ND	1.0
		Dibromochloromethane	ND	1.0
		Tetrachloroethene	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		Chlorobenzene	ND	1.0
		1,1,1,2-Tetrachloroethane	ND	1.0
		Ethylbenzene	1.0	1.0
		Styrene	ND	1.0
		o-Xylene	ND	1.0
		Bromoform	ND	1.0
		1,1,2,2-Tetrachloroethane	ND	1.0
		1,2,3-Trichloropropane	ND	1.0
		Bromobenzene	ND	1.0
		Propylbenzene	1.9	1.0
		2-Chlorotoluene	ND	1.0
		4-Chlorotoluene	ND	1.0
		1,3,5-Trimethylbenzene	ND	1.0
		tert-Butylbenzene	ND	1.0
		1,2,4-Trimethylbenzene	ND	1.0
		sec-Butylbenzene	ND	1.0
		1,3-Dichlorobenzene	ND	1.0
		1,4-Dichlorobenzene	ND	1.0
		1,2-Dichlorobenzene	ND	1.0
		4-Isopropyltoluene	ND	1.0
		1,2-Dibromo-3-chloropropane	ND	1.0



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5083102-01	MW-1	1,2,4-Trichlorobenzene	ND	1.0
		Naphthalene	ND	1.0
		Hexachlorobutadiene	ND	1.0
		1,2,3-Trichlorobenzene	ND	1.0
		tert-Butyl alcohol (TBA)	ND	25
		Methyl-tert-butyl ether (MTBE)	ND	1.0
		Diisopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.4	102	70-130
Toluene-d8		20.8	104	70-130
4-Bromofluorobenzene		19.5	98	70-130

Date Sampled:	08/30/05	Date Analyzed:	09/02/05	QC Batch: B000037
Date Received:	08/31/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5083102-02	MW-2	Dichlorodifluoromethane	ND	1.0
		Chloromethane	ND	1.0
		Vinyl chloride	ND	1.0
		Bromomethane	ND	1.0
		Chloroethane (CE)	ND	1.0
		Trichlorofluoromethane	ND	1.0
		1,1-Dichloroethene	ND	1.0
		Methylene Chloride	ND	1.0
		trans-1,2-Dichloroethylene	ND	1.0
		1,1-Dichloroethane	ND	1.0
		cis-1,2-Dichloroethylene	ND	1.0
		2,2-Dichloropropane	ND	1.0
		Chloroform	ND	1.0
		Bromochloromethane	ND	1.0
		1,1,1-Trichloroethane	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		Carbon Tetrachloride	ND	1.0
		Benzene	ND	1.0
		Trichloroethene	ND	1.0
		1,2-Dichloropropane	ND	1.0
		Dibromomethane	ND	1.0
		Bromodichloromethane	ND	1.0
		Toluene	ND	1.0
		1,1,2-Trichloroethane	ND	1.0
		1,3-Dichloropropane	ND	1.0
		Dibromochloromethane	ND	1.0
		Tetrachloroethene	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		Chlorobenzene	ND	1.0
		1,1,1,2-Tetrachloroethane	ND	1.0
		Ethylbenzene	ND	1.0
		Styrene	ND	1.0
		o-Xylene	ND	1.0
		Bromoform	ND	1.0
		1,1,2,2-Tetrachloroethane	ND	1.0
		1,2,3-Trichloropropane	ND	1.0
		Bromobenzene	ND	1.0
		Propylbenzene	ND	1.0
		2-Chlorotoluene	ND	1.0
		4-Chlorotoluene	ND	1.0
		1,3,5-Trimethylbenzene	ND	1.0
		tert-Butylbenzene	ND	1.0
		1,2,4-Trimethylbenzene	ND	1.0
		sec-Butylbenzene	ND	1.0
		1,3-Dichlorobenzene	ND	1.0
		1,4-Dichlorobenzene	ND	1.0
		1,2-Dichlorobenzene	ND	1.0
		4-Isopropyltoluene	ND	1.0
		1,2-Dibromo-3-chloropropane	ND	1.0



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5083102-02	MW-2	1,2,4-Trichlorobenzene	ND	1.0
		Naphthalene	ND	1.0
		Hexachlorobutadiene	ND	1.0
		1,2,3-Trichlorobenzene	ND	1.0
		tert-Butyl alcohol (TBA)	ND	25
		Methyl-tert-butyl ether (MTBE)	ND	1.0
		Diisopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.7	104	70-130
Toluene-d8		21.3	106	70-130
4-Bromofluorobenzene		19.2	96	70-130

Date Sampled:	08/30/05	Date Analyzed:	09/02/05	QC Batch: B000037
Date Received:	08/31/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5083102-03	MW-3	Dichlorodifluoromethane	ND	1.0
		Chloromethane	ND	1.0
		Vinyl chloride	ND	1.0
		Bromomethane	ND	1.0
		Chloroethane (CE)	ND	1.0
		Trichlorofluoromethane	ND	1.0
		1,1-Dichloroethene	ND	1.0
		Methylene Chloride	ND	1.0
		trans-1,2-Dichloroethylene	ND	1.0
		1,1-Dichloroethane	ND	1.0
		cis-1,2-Dichloroethylene	ND	1.0
		2,2-Dichloropropane	ND	1.0
		Chloroform	ND	1.0
		Bromochloromethane	ND	1.0
		1,1,1-Trichloroethane	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		Carbon Tetrachloride	ND	1.0
		Benzene	ND	1.0
		Trichloroethene	ND	1.0
		1,2-Dichloropropane	ND	1.0
		Dibromomethane	ND	1.0
		Bromodichloromethane	ND	1.0
		Toluene	ND	1.0
		1,1,2-Trichloroethane	ND	1.0
		1,3-Dichloropropane	ND	1.0
		Dibromochloromethane	ND	1.0
		Tetrachloroethene	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		Chlorobenzene	ND	1.0
		1,1,1,2-Tetrachloroethane	ND	1.0
		Ethylbenzene	ND	1.0
		Styrene	ND	1.0
		o-Xylene	ND	1.0
		Bromoform	ND	1.0
		1,1,2,2-Tetrachloroethane	ND	1.0
		1,2,3-Trichloropropane	ND	1.0
		Bromobenzene	ND	1.0
		Propylbenzene	ND	1.0
		2-Chlorotoluene	ND	1.0
		4-Chlorotoluene	ND	1.0
		1,3,5-Trimethylbenzene	ND	1.0
		tert-Butylbenzene	ND	1.0
		1,2,4-Trimethylbenzene	ND	1.0
		sec-Butylbenzene	ND	1.0
		1,3-Dichlorobenzene	ND	1.0
		1,4-Dichlorobenzene	ND	1.0
		1,2-Dichlorobenzene	ND	1.0
		4-Isopropyltoluene	ND	1.0
		1,2-Dibromo-3-chloropropane	ND	1.0



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5083102-03	MW-3	1,2,4-Trichlorobenzene	ND	1.0
		Naphthalene	ND	1.0
		Hexachlorobutadiene	ND	1.0
		1,2,3-Trichlorobenzene	ND	1.0
		tert-Butyl alcohol (TBA)	ND	25
		Methyl-tert-butyl ether (MTBE)	ND	1.0
		Diisopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		21.0	105	70-130
Toluene-d8		21.2	106	70-130
4-Bromofluorobenzene		19.2	96	70-130

Date Sampled:	08/30/05	Date Analyzed:	09/02/05	QC Batch: B000037
Date Received:	08/31/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5083102-04	MW-4	Dichlorodifluoromethane	ND	1.0
		Chloromethane	ND	1.0
		Vinyl chloride	ND	1.0
		Bromomethane	ND	1.0
		Chloroethane (CE)	ND	1.0
		Trichlorofluoromethane	ND	1.0
		1,1-Dichloroethene	ND	1.0
		Methylene Chloride	ND	1.0
		trans-1,2-Dichloroethylene	ND	1.0
		1,1-Dichloroethane	ND	1.0
		cis-1,2-Dichloroethylene	ND	1.0
		2,2-Dichloropropane	ND	1.0
		Chloroform	ND	1.0
		Bromochloromethane	ND	1.0
		1,1,1-Trichloroethane	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		Carbon Tetrachloride	ND	1.0
		Benzene	ND	1.0
		Trichloroethene	ND	1.0
		1,2-Dichloropropane	ND	1.0
		Dibromomethane	ND	1.0
		Bromodichloromethane	ND	1.0
		Toluene	ND	1.0
		1,1,2-Trichloroethane	ND	1.0
		1,3-Dichloropropane	ND	1.0
		Dibromochloromethane	ND	1.0
		Tetrachloroethene	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		Chlorobenzene	ND	1.0
		1,1,1,2-Tetrachloroethane	ND	1.0
		Ethylbenzene	ND	1.0
		Styrene	ND	1.0
		o-Xylene	ND	1.0
		Bromoform	ND	1.0
		1,1,2,2-Tetrachloroethane	ND	1.0
		1,2,3-Trichloropropane	ND	1.0
		Bromobenzene	ND	1.0
		Propylbenzene	ND	1.0
		2-Chlorotoluene	ND	1.0
		4-Chlorotoluene	ND	1.0
		1,3,5-Trimethylbenzene	ND	1.0
		tert-Butylbenzene	3.1	1.0
		1,2,4-Trimethylbenzene	ND	1.0
		sec-Butylbenzene	ND	1.0
		1,3-Dichlorobenzene	ND	1.0
		1,4-Dichlorobenzene	ND	1.0
		1,2-Dichlorobenzene	ND	1.0
		4-Isopropyltoluene	ND	1.0
		1,2-Dibromo-3-chloropropane	ND	1.0



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5083102-04	MW-4	1,2,4-Trichlorobenzene	ND	1.0
		Naphthalene	ND	1.0
		Hexachlorobutadiene	ND	1.0
		1,2,3-Trichlorobenzene	ND	1.0
		tert-Butyl alcohol (TBA)	ND	25
		Methyl-tert-butyl ether (MTBE)	ND	1.0
		Diisopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		21.0	105	70-130
Toluene-d8		21.3	106	70-130
4-Bromofluorobenzene		19.0	95	70-130

Date Sampled:	08/30/05	Date Analyzed:	09/02/05	QC Batch: B000037
Date Received:	08/31/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5083102-05	MW-5	Dichlorodifluoromethane	ND	1.0
		Chloromethane	ND	1.0
		Vinyl chloride	ND	1.0
		Bromomethane	ND	1.0
		Chloroethane (CE)	ND	1.0
		Trichlorofluoromethane	ND	1.0
		1,1-Dichloroethene	ND	1.0
		Methylene Chloride	ND	1.0
		trans-1,2-Dichloroethylene	ND	1.0
		1,1-Dichloroethane	ND	1.0
		cis-1,2-Dichloroethylene	ND	1.0
		2,2-Dichloropropane	ND	1.0
		Chloroform	ND	1.0
		Bromochloromethane	ND	1.0
		1,1,1-Trichloroethane	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		Carbon Tetrachloride	ND	1.0
		Benzene	ND	1.0
		Trichloroethene	ND	1.0
		1,2-Dichloropropane	ND	1.0
		Dibromomethane	ND	1.0
		Bromodichloromethane	ND	1.0
		Toluene	ND	1.0
		1,1,2-Trichloroethane	ND	1.0
		1,3-Dichloropropane	ND	1.0
		Dibromochloromethane	ND	1.0
		Tetrachloroethene	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		Chlorobenzene	ND	1.0
		1,1,1,2-Tetrachloroethane	ND	1.0
		Ethylbenzene	ND	1.0
		Styrene	ND	1.0
		o-Xylene	ND	1.0
		Bromoform	ND	1.0
		1,1,2,2-Tetrachloroethane	ND	1.0
		1,2,3-Trichloropropane	ND	1.0
		Bromobenzene	ND	1.0
		Propylbenzene	ND	1.0
		2-Chlorotoluene	ND	1.0
		4-Chlorotoluene	ND	1.0
		1,3,5-Trimethylbenzene	ND	1.0
		tert-Butylbenzene	ND	1.0
		1,2,4-Trimethylbenzene	ND	1.0
		sec-Butylbenzene	ND	1.0
		1,3-Dichlorobenzene	ND	1.0
		1,4-Dichlorobenzene	ND	1.0
		1,2-Dichlorobenzene	ND	1.0
		4-Isopropyltoluene	ND	1.0
		1,2-Dibromo-3-chloropropane	ND	1.0



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5083102-05	MW-5	1,2,4-Trichlorobenzene	ND	1.0
		Naphthalene	ND	1.0
		Hexachlorobutadiene	ND	1.0
		1,2,3-Trichlorobenzene	ND	1.0
		tert-Butyl alcohol (TBA)	ND	25
		Methyl-tert-butyl ether (MTBE)	ND	1.0
		Diisopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		21.2	106	70-130
Toluene-d8		21.4	107	70-130
4-Bromofluorobenzene		19.3	96	70-130

Date Sampled:	08/30/05	Date Analyzed:	09/02/05	QC Batch: B000037
Date Received:	08/31/05	Method:	EPA 8260B	



Quality Assurance Report

TPH Gasoline in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B000045 - EPA 5030

Blank (B000045-BLK1)

Prepared & Analyzed: 08/31/05

Gasoline	ND	50	ug/L
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Matrix Spike (B000045-MS1)

Source: 5083102-01

Prepared & Analyzed: 08/31/05

Benzene	11.0	0.50	ug/L	10.0	1.8	92	70-130
Toluene	9.62	0.50	ug/L	10.0	0.36	93	70-130
Ethylbenzene	11.0	0.50	ug/L	10.0	1.2	98	70-130
Xylenes, total	31.4	1.5	ug/L	30.0	1.2	101	70-130

Matrix Spike Dup (B000045-MSD1)

Source: 5083102-01

Prepared & Analyzed: 08/31/05

Benzene	11.2	0.50	ug/L	10.0	1.8	94	70-130	2	20
Toluene	9.81	0.50	ug/L	10.0	0.36	95	70-130	2	20
Ethylbenzene	11.1	0.50	ug/L	10.0	1.2	99	70-130	1	20
Xylenes, total	31.5	1.5	ug/L	30.0	1.2	101	70-130	0	20



Volatile Hydrocarbons by GC/MS in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B000037 - EPA 5030B										
Blank (B000037-BLK1)				Prepared & Analyzed: 08/29/05						
Dichlorodifluoromethane	ND	1.0	ug/L							
Chloromethane	ND	1.0	ug/L							
Vinyl chloride	ND	1.0	ug/L							
Bromomethane	ND	1.0	ug/L							
Chloroethane (CE)	ND	1.0	ug/L							
Trichlorofluoromethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	1.0	ug/L							
Methylene Chloride	ND	1.0	ug/L							
trans-1,2-Dichloroethylene	ND	1.0	ug/L							
1,1-Dichloroethane	ND	1.0	ug/L							
cis-1,2-Dichloroethylene	ND	1.0	ug/L							
2,2-Dichloropropane	ND	1.0	ug/L							
Chloroform	ND	1.0	ug/L							
Bromochloromethane	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,2-Dichloroethane (EDC)	ND	1.0	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Benzene	ND	1.0	ug/L							
Trichloroethene	ND	1.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
Dibromomethane	ND	1.0	ug/L							
Bromodichloromethane	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
1,3-Dichloropropane	ND	1.0	ug/L							
Dibromochloromethane	ND	1.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
1,2-Dibromoethane (EDB)	ND	1.0	ug/L							
Chlorobenzene	ND	1.0	ug/L							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Styrene	ND	1.0	ug/L							
o-Xylene	ND	1.0	ug/L							
Bromoform	ND	1.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L							
1,2,3-Trichloropropane	ND	1.0	ug/L							
Bromobenzene	ND	1.0	ug/L							
Propylbenzene	ND	1.0	ug/L							
2-Chlorotoluene	ND	1.0	ug/L							
4-Chlorotoluene	ND	1.0	ug/L							
1,3,5-Trimethylbenzene	ND	1.0	ug/L							
tert-Butylbenzene	ND	1.0	ug/L							
1,2,4-Trimethylbenzene	ND	1.0	ug/L							



Volatile Hydrocarbons by GC/MS in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B000037 - EPA 5030B										
Blank (B000037-BLK1)				Prepared & Analyzed: 08/29/05						
sec-Butylbenzene	ND	1.0	ug/L							
1,3-Dichlorobenzene	ND	1.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
1,2-Dichlorobenzene	ND	1.0	ug/L							
4-Isopropyltoluene	ND	1.0	ug/L							
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L							
1,2,4-Trichlorobenzene	ND	1.0	ug/L							
Naphthalene	ND	1.0	ug/L							
Hexachlorobutadiene	ND	1.0	ug/L							
1,2,3-Trichlorobenzene	ND	1.0	ug/L							
tert-Butyl alcohol (TBA)	ND	25	ug/L							
Methyl-tert-butyl ether (MTBE)	ND	1.0	ug/L							
Diisopropyl Ether (DIPE)	ND	1.0	ug/L							
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	ug/L							
Tert-Amyl Methyl Ether (TAME)	ND	1.0	ug/L							
Surrogate: Dibromofluoromethane	20.1		ug/L	20.0		100	70-130			
Surrogate: Toluene-d8	20.2		ug/L	20.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	19.6		ug/L	20.0		98	70-130			
Matrix Spike (B000037-MS1)				Source: 5082603-01		Prepared & Analyzed: 08/29/05				
1,1-Dichloroethene	18.1	1.0	ug/L	25.0	ND	72	70-130			
Benzene	24.0	1.0	ug/L	25.0	ND	96	70-130			
Trichloroethene	25.1	1.0	ug/L	25.0	ND	100	70-130			
Toluene	26.0	1.0	ug/L	25.0	ND	104	70-130			
Chlorobenzene	26.1	1.0	ug/L	25.0	ND	104	70-130			
Surrogate: Dibromofluoromethane	20.6		ug/L	20.0		103	70-130			
Surrogate: Toluene-d8	20.6		ug/L	20.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	18.9		ug/L	20.0		94	70-130			



Volatile Hydrocarbons by GC/MS in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B000037 - EPA 5030B										
Matrix Spike Dup (B000037-MSD1)		Source: 5082603-01			Prepared & Analyzed: 08/29/05					
1,1-Dichloroethene	18.2	1.0	ug/L	25.0	ND	73	70-130	1	20	
Benzene	24.0	1.0	ug/L	25.0	ND	96	70-130	0	20	
Trichloroethene	25.4	1.0	ug/L	25.0	ND	102	70-130	2	20	
Toluene	26.5	1.0	ug/L	25.0	ND	106	70-130	2	20	
Chlorobenzene	26.2	1.0	ug/L	25.0	ND	105	70-130	1	20	
<i>Surrogate: Dibromofluoromethane</i>	<i>20.7</i>		<i>ug/L</i>	<i>20.0</i>		<i>104</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>20.9</i>		<i>ug/L</i>	<i>20.0</i>		<i>104</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>19.0</i>		<i>ug/L</i>	<i>20.0</i>		<i>95</i>	<i>70-130</i>			



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference



Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128

CHAIN OF CUSTODY

LAB PROJECT NUMBER: 5083102

SCS ENGINEERS PROJECT NAME: Hampton Way

SCS ENGINEERS PROJECT NUMBER: 01203314.00

BILLING INFORMATION

COMPANY NAME: SCS ENGINEERS	CONTACT: Phil Johnson
ADDRESS: 3645 WESTWIND BOULEVARD	COMPANY NAME: Judith Johnson Trust
SANTA ROSA, CA 95403	ADDRESS: 4591 Heath Circle
CONTACT: Kevin Coker	Rohnert Park, CA 94928
PHONE#: (707) 546-9461	PHONE#:
FAX #: (707) 544-5769	FAX #:

TURNAROUND TIME (check one)

MOBILE LAB	24 HOURS
SAME DAY	72 HOURS
48 HOURS	NORMAL
5 DAYS	<input checked="" type="checkbox"/>

GEOTRACKER EDF: X Y N
GLOBAL ID: T0609700055

COOLER TEMPERATURE

°C

COC

PAGE 1 OF 1

ANALYSIS

ITEM	CLIENT SAMPLE I.D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	TPH/GAS/BTEX	EPA 8015M/8020	TPH DIESEL / MOTOR OIL EPA 8015M	VOLATILE HYDROCARBONS EPA 8260 (FULL LIST)	+ Oxy / Fuel Additives EPA 8260 Full List	BTEX & OXYGENATES + PB SCAVENGERS EPA 8260B	OXYGENATED FUEL ADDITIVES EPA 8260M	CHLORINATED SOLVENTS	SEMI-VOLATILE HYDROCARBONS EPA 8270	TRPH / TOG SM 5520F / EPA 418.1M	PESTICIDES / PCB'S EPA 8081 / 8141 / 8082	CAM 17 METALS / 5 LUFT METALS	TOTAL LEAD	COMMENTS	LAB SAMPLE #
1	MW-1	8/30/05	210	LIQ	3	YES	X	X		X											5083102-01
2	MW-2	8/30/05	130	LIQ	3																02
3	MW-3	8/30/05	155	LIQ	3																03
4	MW-4	8/30/05	200	LIQ	3																04
5	MW-5	8/30/05	145	LIQ	3																05
6																					
7																					
8																					
9																					
10																					
11																					

SIGNATURES

RELINQUISHED BY: Jimmy Updeley	DATE: 8/31/05	TIME: 10:37
RECEIVED BY:	DATE:	TIME:
RELINQUISHED BY:	DATE:	TIME:
RECEIVED BY:	DATE:	TIME:

RECEIVED BY LABORATORY:

8/31/05 10:37

IWM, Inc.

INTEGRATED WASTESTREAM MANAGEMENT, INC.
950 AMES AVENUE, MILPITAS, CA 95035
PHONE: 408.942.8955 FAX: 408.942.1499

CERTIFICATE OF DISPOSAL

Generator Name: Judith Johnson Trust
Address: 4591 Health Circle
Rohnert Park, CA 94928
Contact: Phil Johnson
Phone: 707-494-5700

Facility Name: Econ-O-Sweep
Address: 1599 Hampton Way
Santa Rosa, CA
Facility Contact: Amy Yardley, SCS Engineers
Phone: 707-546-9461

IWM Job #:	<u>95401-DS</u>
Description of Waste:	<u>4 Drum(s) of</u> <u>Non-Hazardous</u> <u>Soil</u>
Removal Date:	<u>9/1/05</u>
Ticket #:	<u>RSVRL010905</u>

Transporter Information

Name: IWM, Inc.
Address: 950 Ames Avenue
Milpitas, CA 95035
Phone: (408) 942-8955

Disposal Facility Information

Name: Republic Services Vasco Road Landfill
Address: 4001 N. Vasco Road
Livermore, CA 94550
Phone: (925) 447-0491

IWM, INC. CERTIFIES THAT THE ABOVE LISTED NON-HAZARDOUS WASTE WILL BE
TREATED AND DISPOSED AT THE DESIGNATED FACILITY IN ACCORDANCE WITH
APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

William T. DeLon *William T. DeLon*
Authorized Representative (Print Name and Signature)

9/1/05
Date

IWM, Inc.

INTEGRATED WASTESTREAM MANAGEMENT, INC.
950 AMES AVENUE, MILPITAS, CA 95035
PHONE: 408.942.8955 FAX: 408.942.1499

CERTIFICATE OF DISPOSAL

Generator Name: Judith Johnson Trust
Address: 4591 Health Circle
Rohnert Park, CA 94928
Contact: Phil Johnson
Phone: 707-494-5700

Facility Name: Econ-O-Sweep
Address: 1599 Hampton Way
Santa Rosa, CA
Facility Contact: Amy Yardley, SCS Engineers
Phone: 707-546-9461

IWM Job #:	<u>95402-DW</u>
Description of Waste:	<u>2 Drum(s) of</u> <u>Non-Hazardous</u> <u>Water/Rinsate</u>
Removal Date:	<u>9/1/05</u>
Ticket #:	<u>SP010905-MISC</u>

Transporter Information

Name: IWM, Inc.
Address: 950 Ames Avenue
Milpitas, CA 95035
Phone: (408) 942-8955

Disposal Facility Information

Name: Seaport Refining & Environmental
Address: 675 Seaport Blvd
Redwood City, CA 94063
Phone: 650-364-6158

**IWM, INC. CERTIFIES THAT THE ABOVE LISTED NON-HAZARDOUS WASTE WILL BE
TREATED AND DISPOSED AT THE DESIGNATED FACILITY IN ACCORDANCE WITH
APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.**

William T. DeLon *William T. DeLon*
Authorized Representative (Print Name and Signature)

9/1/05
Date